

# Installer's Pocket Guide

Guía de Bolsillo  
Para el Instalador

**SIMPSON**

**Strong-Tie**



S-C-INSTALL22

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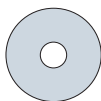
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# Connectors: Types of Nail Holes

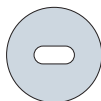
## Conectores: Tipos de Agujeros de Clavo



**Round**  
Redondo

- **Purpose:**  
To fasten a connector.
- **Fill Requirements:**  
Always fill, unless otherwise noted.

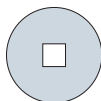
- **Propósito:**  
Para fijar un conector.
- **Requisitos para Llenar:**  
Llénelo siempre, salvo que se indique lo contrario.



**Obround**  
Alargado

- **Purpose:**  
To make fastening a connector in a tight location easier.
- **Fill Requirements:**  
Always fill, unless otherwise noted.

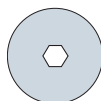
- **Propósito:**  
Para fijar un conector en una locación apretada con el fin de facilitar el trabajo.
- **Requisitos para Llenar:**  
Llénelo siempre, salvo que se indique lo contrario.



**Square**  
Cuadrada

- **Purpose:**  
To fasten a connector.
- **Fill Requirements:**  
Always fill, unless otherwise noted.

- **Propósito:**  
Para fijar un conector.
- **Requisitos para Llenar:**  
Llénelo siempre, salvo que se indique lo contrario.



**Hexagonal**  
Hexágono

- **Purpose:**  
To fasten a connector to concrete or masonry.
- **Fill Requirements:**  
Always fill when fastening a connector to concrete or fastening a connector with masonry screws.

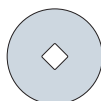
- **Propósito:**  
Para fijar un conector a concreto o mampostería.
- **Requisitos para Llenar:**  
Siempre llénelo al fijar un conector a concreto o al fijar un conector con tornillos de mampostería.



**Triangular**  
Triangular

- **Purpose:**  
To increase a connector's strength or to achieve maximum strength.
- **Fill Requirements:**  
When the designer specifies max. nailing.

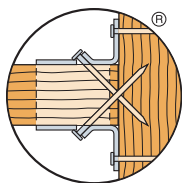
- **Propósito:**  
Para aumentar la fuerza de un conector o para lograr una fuerza máxima.
- **Requisitos para Llenar:**  
Llénelo cuando el diseñador lo especifica clavado "Máx."



**Diamond**  
Diamante

- **Purpose:**  
To temporarily fasten a connector to make installing it easier.
- **Fill Requirements:**  
None.

- **Propósito:**  
Para fijar temporalmente un conector, con el propósito de facilitar su instalación.
- **Requisitos para Llenar:**  
Ninguno.



### Double-Shear Nailing

Clavado  
de Doble  
Penetración

- **Purpose:**

Installed into the joist and header, to distribute the load through two points on each joist nail for greater strength. Must use full-length nail unless 2 1/2" nail approved by designer.

- **Fill Requirements:**

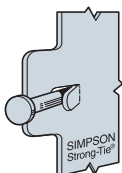
Always fill.

- **Propósito:**

Instalado en la vigueta y la cabecera, para distribuir la carga a través de dos puntos en cada clavo de vigueta para mayor resistencia. Debe usar un clavo de largo completo a menos que un clavo de 2 1/2" esté aprobado por el diseñador.

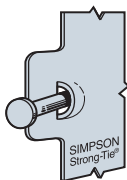
- **Requisitos para Llenar:**

Llénelo siempre.



**DO NOT use short (1 1/2") nails for double-shear nailing.**

NO usen los clavos cortos de 1 1/2" para uso de doble penetración.



### Dome Nailing

Clavado  
con Cúpula

- **Purpose:**

To guide the nail into the joist and header at a 45° angle.

- **Fill Requirements:**

Always fill.

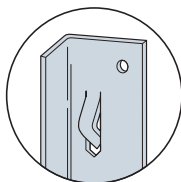
- **Propósito:**

Con este dispositivo se guían el clavo en lavigueta y la viga cabezal en ángulo de 45°.

- **Requisitos para Llenar:**

Llénelo siempre.

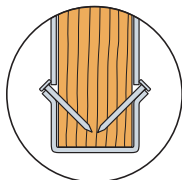




**Speed Prongs**

Dientes Rápidos

- **Purpose:**  
To temporarily position and secure the connector for easier and faster installation.
- **Fill Requirements:**  
None.
- **Propósito:**  
Se usan para colocar el conector y fijarlo temporalmente, con el fin de facilitar y hacer más rápida su instalación.
- **Requisitos para Llenar:**  
Ninguno.



**Positive-Angle Nailing**

Clavado  
Efectivo  
en Ángulo

- **Purpose:**  
To use when wood splitting may occur, and to speed installation.
- **Fill Requirements:**  
Always fill.
- **Propósito:**  
Se usa cuando la madera puede rajarse o abrirse y con el propósito hacer más rápida la instalación.
- **Requisitos para Llenar:**  
Llénelo siempre.

## QUESTIONS?

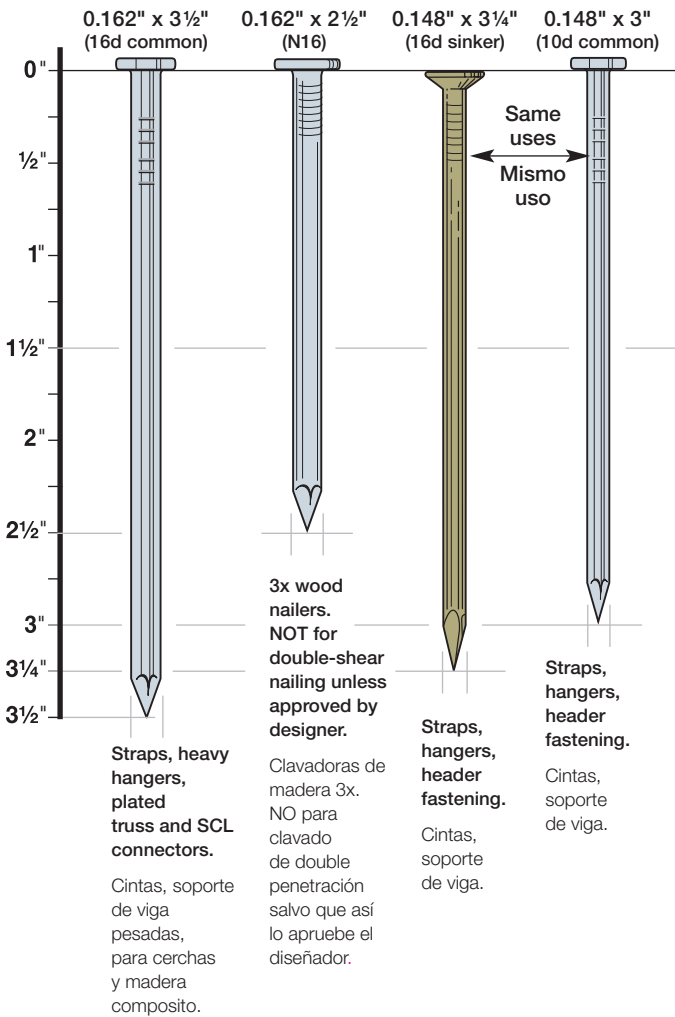
## ¿PREGUNTAS?

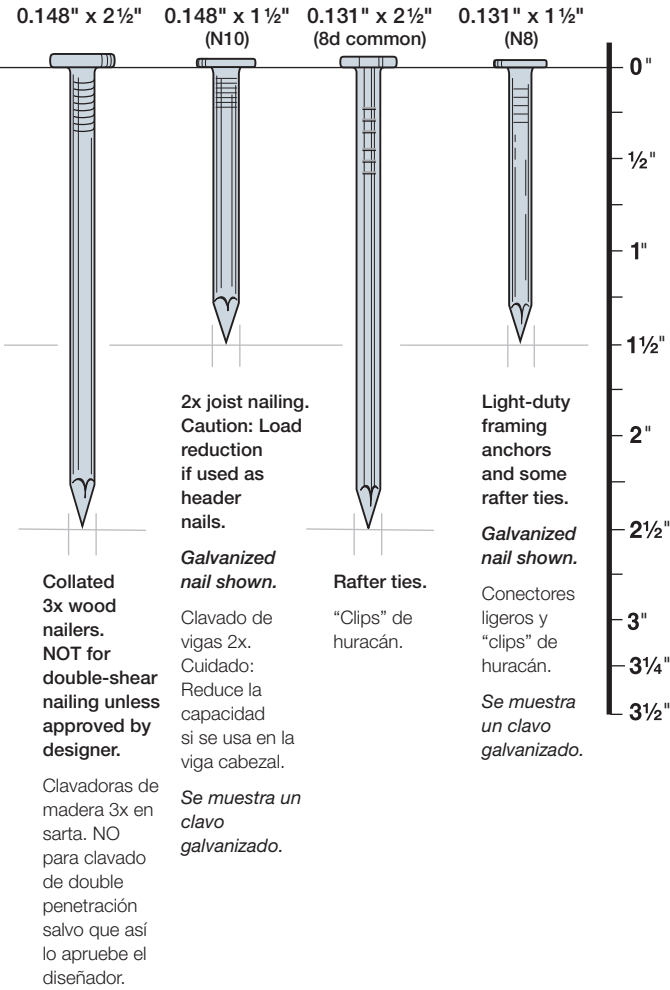
**1 (800) 999-5099 or visit [strongtie.com](http://strongtie.com)**

The information in this guide shows contractors how our Simpson Strong-Tie® products should be correctly installed. It is not intended for use by Designers. It is important that users of this guide also follow any installation guidelines specified by the Designer and refer to the current Simpson Strong-Tie *Wood Construction Connectors* catalog for other crucial installation information.

Esta guía tiene como objetivo servir como herramienta de referencia rápida para facilitar la correcta instalación de los productos Simpson Strong-Tie®. Es importante que los usuarios sigan todas las pautas de instalación especificadas por el diseñador y consulten el catálogo de *Conectores para Construcciones de Madera* de Simpson Strong-Tie para obtener más información importante sobre la instalación.

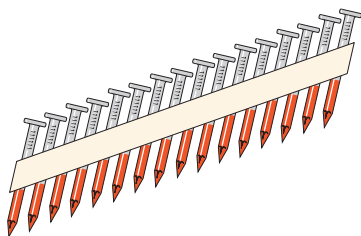
# Fasteners/Clavos





**When using stainless-steel connectors, use ring-shank stainless-steel nails of the same size. When using ZMAX®/ hot-dip galvanized connectors, use fasteners galvanized per ASTM A153.**

Cuando use conectores de acero inoxidable, use clavos de acero inoxidable de vástago de anillo del mismo tamaño. Cuando use conectores galvanizados por inmersión en caliente/ZMAX®, use sujetadores galvanizados según ASTM A153.

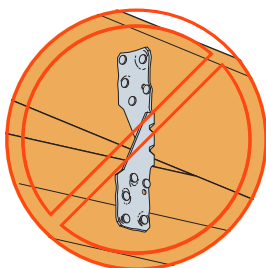


**Power-driven collated nails can be used only if:**

1. Correct diameter and length
2. Correct quantity is installed
3. The power tool has a hole location feature (finds the hole)
4. Nails are not overdriven

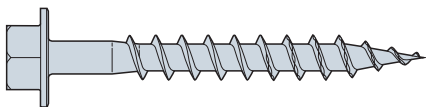
**Sólo se pueden utilizar clavos estructurales para pistola si:**

1. Diámetro y largo correctos
2. La cantidad correcta está instalada
3. La herramienta eléctrica tiene una función de ubicación de orificio (encuentra el orificio)
4. Los clavos no están demasiado ajustados



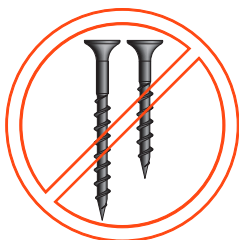
**Do Not Overdrive Nails.  
Do Not Drive Nails  
Through Connectors.**

No Se Mete  
Demasiado.  
No Se Puede.  
Hacer Agujeros  
Con Maquina.



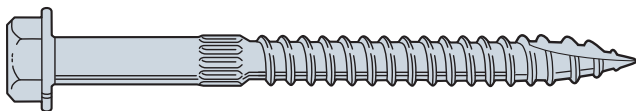
**Strong-Drive® SD CONNECTOR screws are designed to replace nails in many popular Simpson Strong-Tie connectors. See [strongtie.com/sd](http://strongtie.com/sd) for information.**

Los tornillos para CONECTORES SD Strong-Drive están diseñados para reemplazar los clavos en los conectores de Simpson Strong-Tie más populares. Consulte [strongtie.com/sd](http://strongtie.com/sd) para obtener más información.



**Common screws, such as wood and drywall screws, may NOT be used to replace NAILS in connectors.**

NO se puede usar tornillos comunes, tales como tornillos para madera y panel yeso, en vez de CLAVOS en conectores.

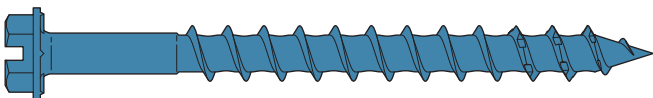
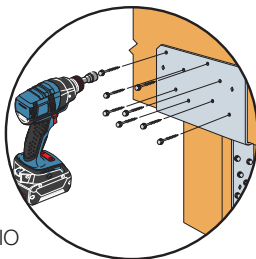


Some connectors install with the  
**1/4" Strong-Drive® SDS HEAVY-DUTY  
CONNECTOR screw**

1. Install with 3/8" hex socket or nut driver
2. Predrilling generally not required
3. Do not substitute with lag screws

Algunos conectores se instalan con  
el tornillo para CONECTORES DE SERVICIO  
PESADO SDS Strong-Drive de 1/4".

1. Instalar con un destornillador de casquillo hexagonal o de tuercas de 3/8"
2. Generalmente no es necesario efectuar perforaciones previas
3. No sustituir con tirafondos



**Titen Turbo™ Hex-Head Concrete and Masonry Screw**

**Diameter: 3/16", 1/4"**

Tornillo con cabeza hexagonal para concreto  
y mampostería Titen Turbo

Diametro: 3/16", 1/4"



**Machine Bolt**

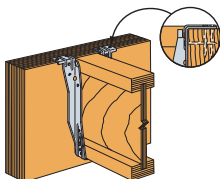
**Diameter: 1/2", 5/8", 3/4", 7/8", 1"**

Perno torneado

Diametro: 1/2", 5/8", 3/4", 7/8", 1"

### Top-Flange Hangers

#### Soportes Con Ala Superior



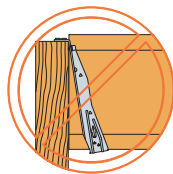
**Flush framing**

Entramado al ras



**Hanger over-spread**

Soporte demasiado  
abierto

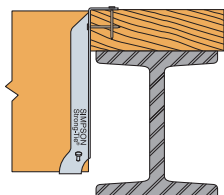


**Hanger not plumb**

Soporte fuera de  
plomo

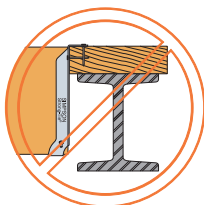
### Wood Nailers

#### Listones Clavadores De Madera



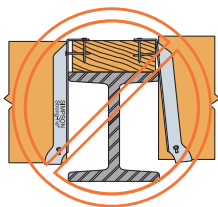
**Correct attachment**

Montaje correcto



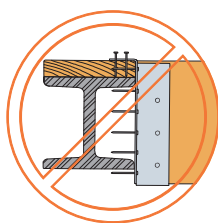
**Nailer too wide. Typical allowable overhang 1/4".**

Listón clavador muy ancho. Voladizo típico permitido de 1/4".



**Nailer too narrow**

Listón clavador muy estrecho

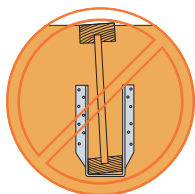


**Nailer too thin or wrong hanger for the application**

Clavadora demasiado delgada o soporte incorrecto para la aplicación

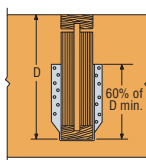


### Prevent Rotation/Evitar La Rotación



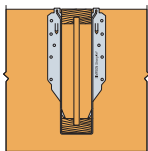
#### No Rotation Resistance

Sin resistencia al giro



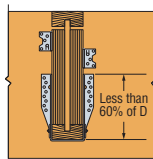
#### Rotation Prevented by Hanger Height (*web stiffeners required*)

Prevención del giro con la altura de las viguetas (*se requieren refuerzos de alma*)



#### Rotation Prevented by Lateral Flange Support

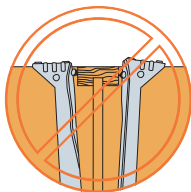
Prevención del giro con soporte lateral del ala



#### Rotation Prevented by Lateral Support (*clips or blocking*)

Prevención del giro con soporte lateral (*clips o bloqueo*)

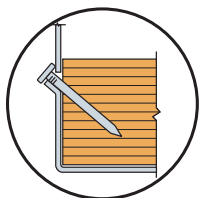
### Toenailing/Clavado En Diagonal



#### Do not toenail I-joists before installing top-flange or face-mount hangers

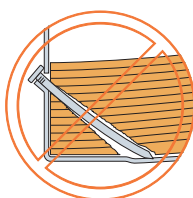
No clave en ángulo las viguetas 'I' antes de montar los soportes (*con o sin ala superior*)

### Positive-Angle Nailing Clavado Efectivo En Ángulo



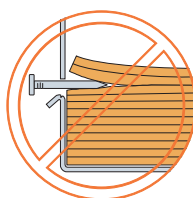
#### Correct nailing approx. 45° angle

Clavado correcto  
aproximadamente a 45°



#### Nail too long

Clavos demasiado  
largos

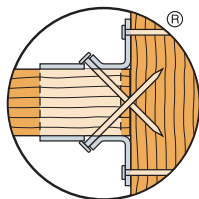


#### Nail at wrong angle

Clavado con un  
ángulo incorrecto

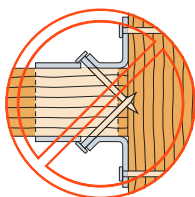
### Double-Shear Nailing

#### Clavado De Doble Penetración



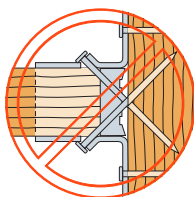
**Must use full-length nail unless 2½" nail approved by designer.**

Debe usar un clavo de largo completo a menos que un clavo de 2½" esté aprobado por el diseñador.



**Shorter nails may not be used as double-shear nails.**

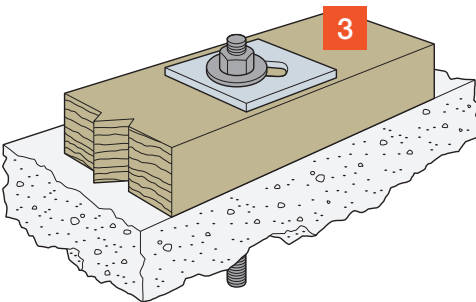
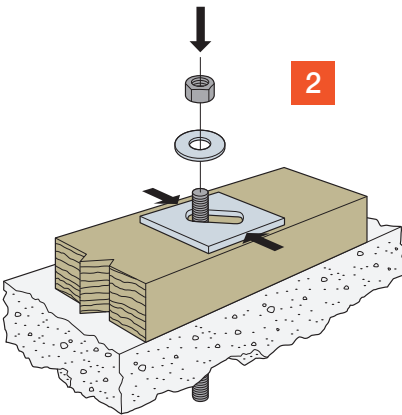
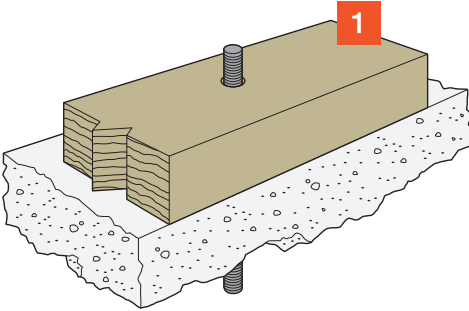
No se pueden utilizar clavos más cortos como clavos de doble penetración.

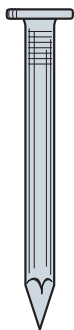


**No gaps larger than ⅛".**

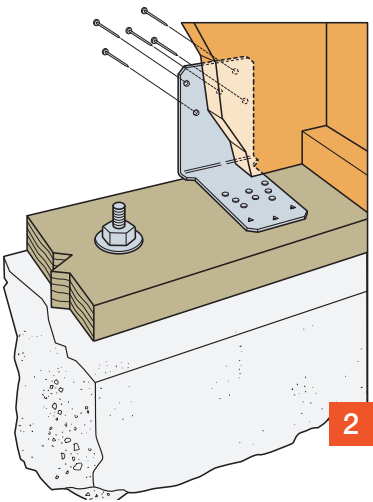
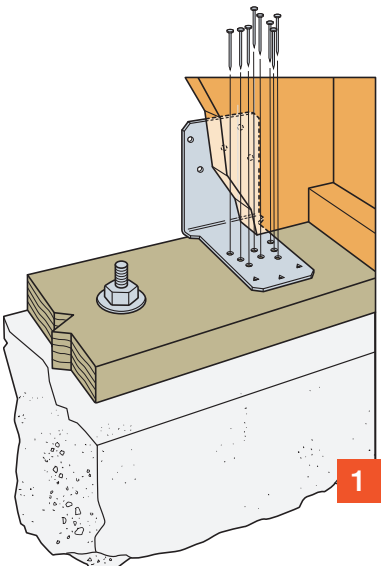
No hay espacios mayores a ⅛".

## BPS-LBPS

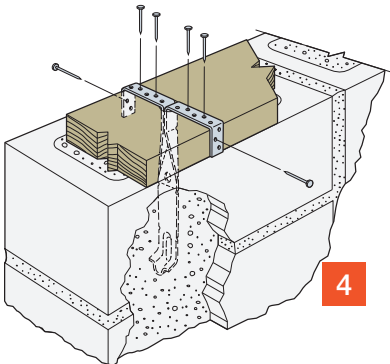
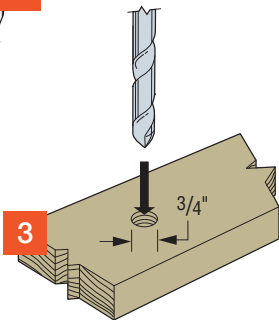
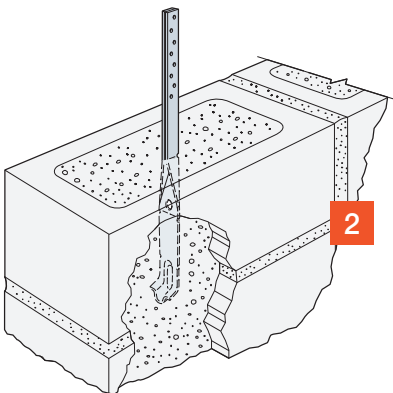
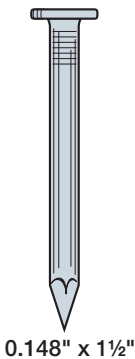
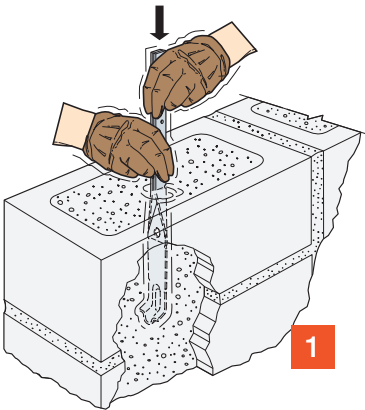


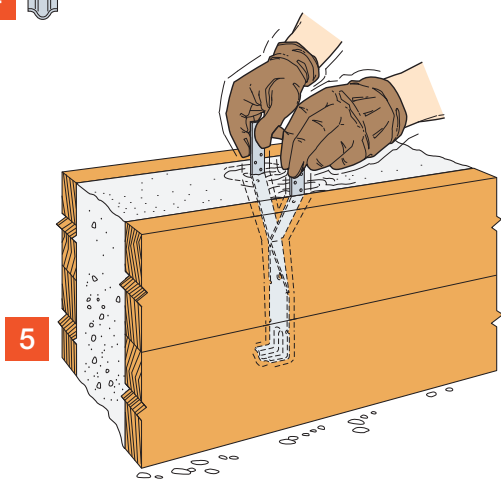
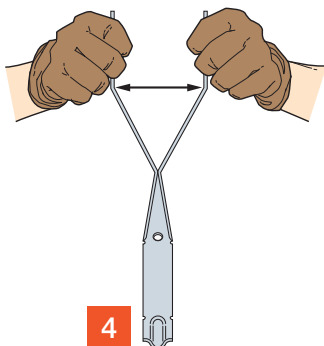
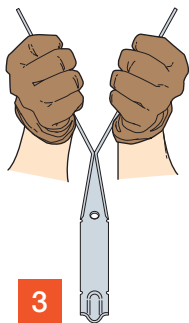
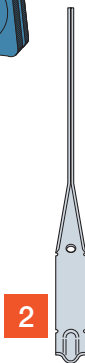
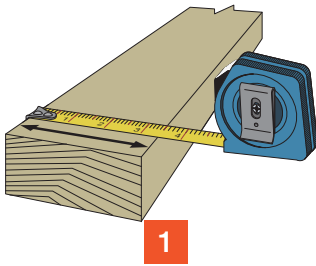


0.148" x 1½"

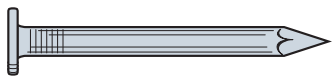
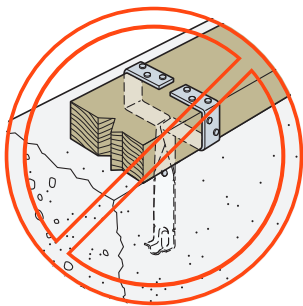
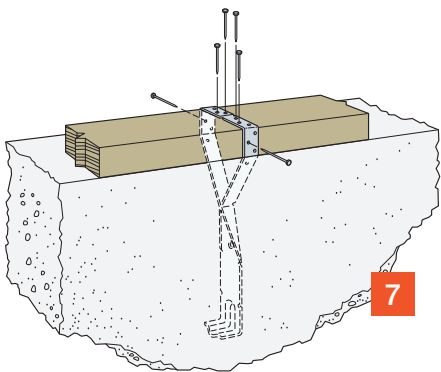
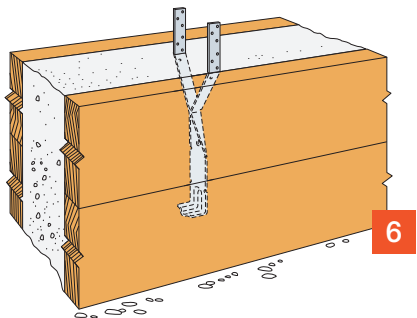


# MAB – Block/Bloque





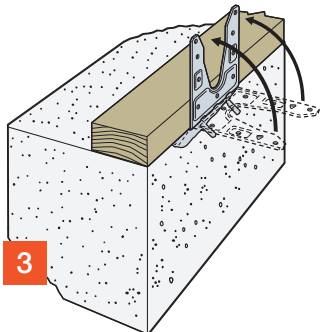
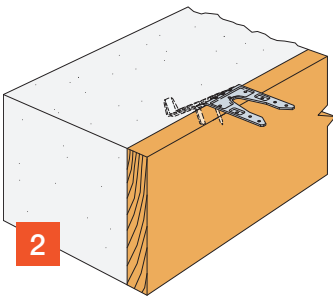
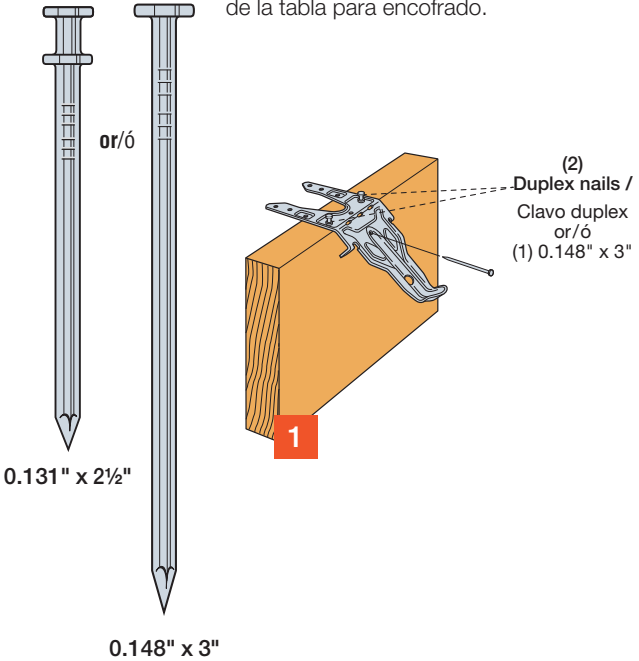


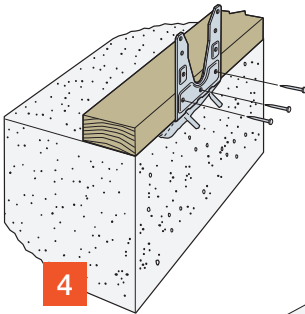


0.148" x 1½"

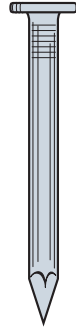
**Nail duplex nails into top of form board.**

Los clavos duplex se insertan en la parte superior de la tabla para encofrado.

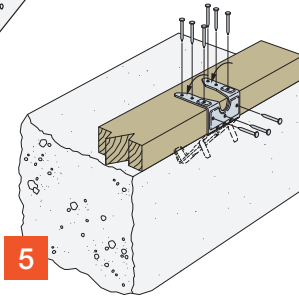




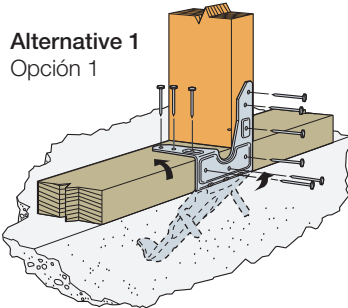
Connector  
Conector



0.148" x 1½"



## Alternative 1 Opción 1



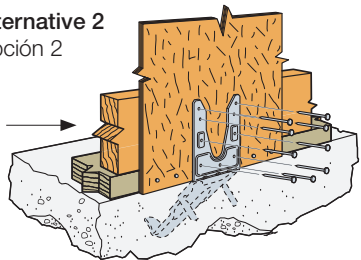
Reduced loads apply;  
check with designer.

Se aplican cargas reducidas;  
consulte al diseñador.

## Alternative 2 Opción 2

Blocking required attached to  
sill with A35Z (not shown) or  
per designer.

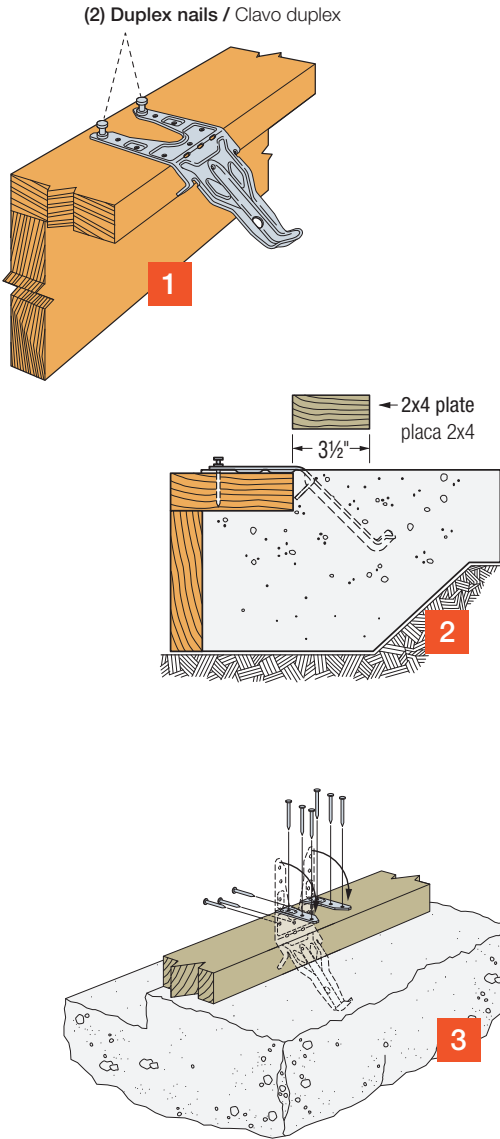
Se debe adjuntar un  
bloqueo al larguero con  
A35Z (no se muestra) o  
según indicaciones del  
diseñador.



Reduced loads apply; check with designer  
before nailing over sheathing.

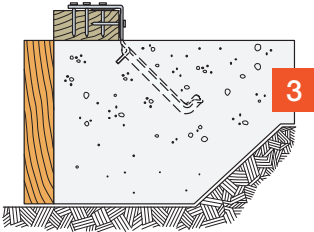
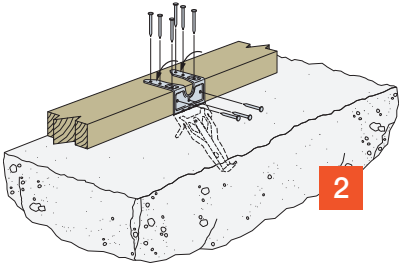
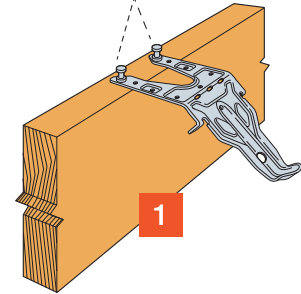
Se aplican cargas reducidas; consulte al  
diseñador antes de clavar sobre el relleno.

## Brick-Ledge Installation Instalación Sobre Cornisa de Ladrillos



## Inside-the-Mudsill Installation Instalación en Solera

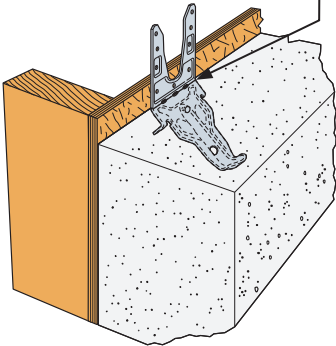
(2) Duplex nails / Clavo duplex

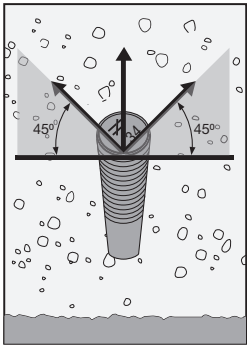
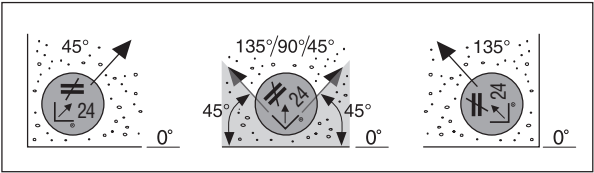
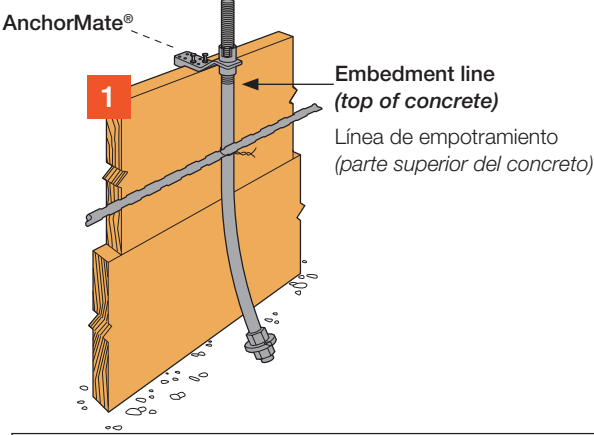


**Embedment line  
(top of concrete)**

Línea de  
empotramiento  
(parte superior  
del concreto)

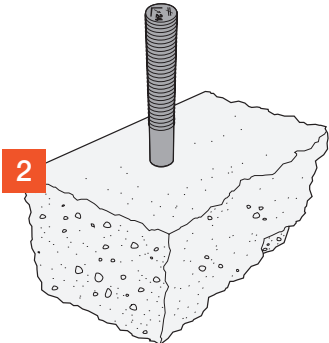
**MASAP**  
similar



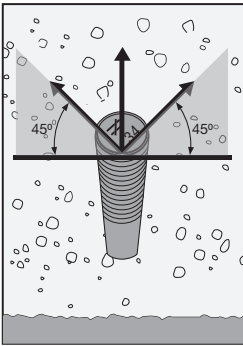
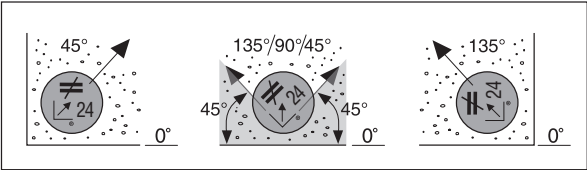
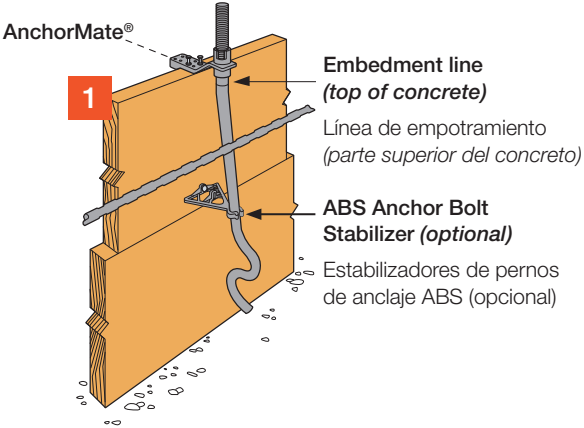


Install a minimum 45°  
from either edge.

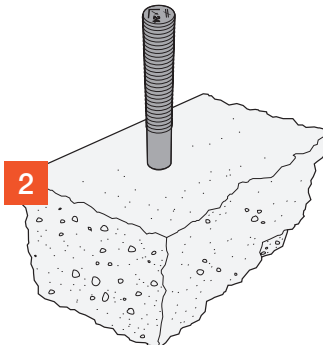
Instalar a mínimo 45°  
de cada cara.

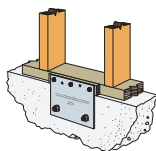
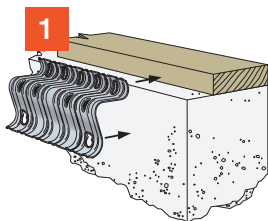




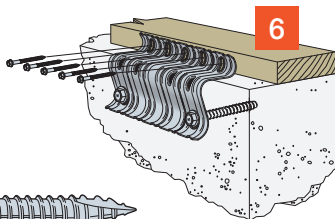
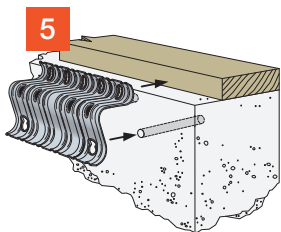
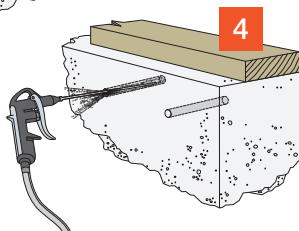
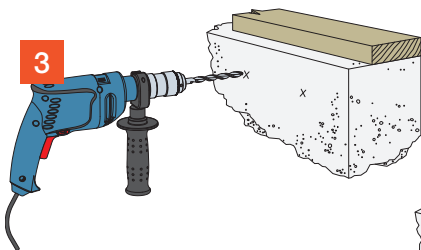
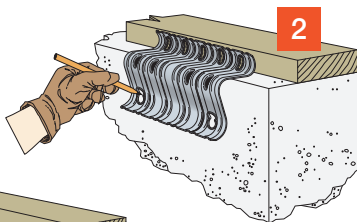


**Install 45° from either edge.**  
Instalar 45° de cada cara.



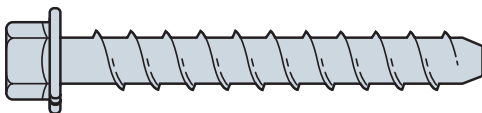


Same installation for FRFP  
 Misma instalación para FRFP



**1/4" x 3" Strong-Drive® SDS HEAVY-DUTY  
 CONNECTOR Screw (included)**

Tornillo para CONECTORES DE SERVICIO PESADO  
 SDS Strong-Drive de 1/4" x 3" (se incluye)



**1/2" x 4" Titen HD®. If using adhesive anchor, see pp. 109–110.**

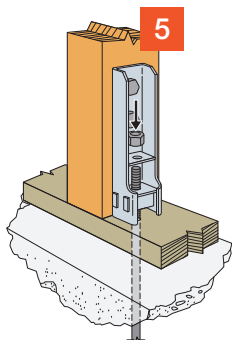
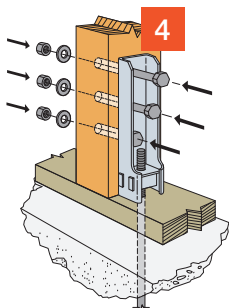
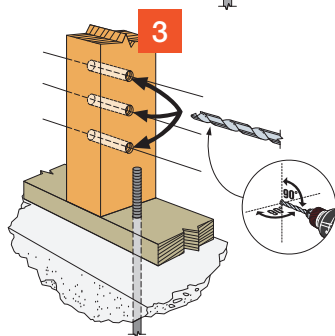
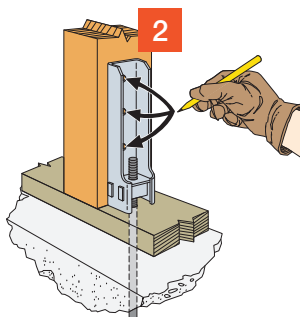
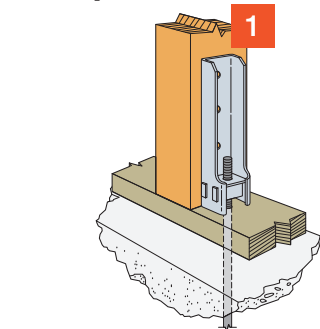
Titen HD de 1/2" x 4". Si usa anclaje adhesivo, consulte  
 las páginas 109–110.

# Holdowns and Tension Ties

**SIMPSON**  
**Strong-Tie**

## HDB/HD

Model No./ N.º de Modelo	Bolt Diameter/ Diámetro del Perno Torneado
HD3B	5/8"
HD5B	3/4"
HD7B	3/4"
HD9B	7/8"
HD12	1"
HD19	1"

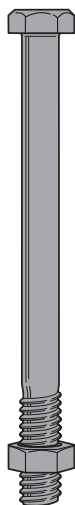


**Bolts shall be installed with the nut and washer on the opposite side of the holdown.**

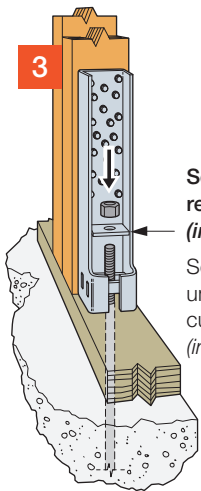
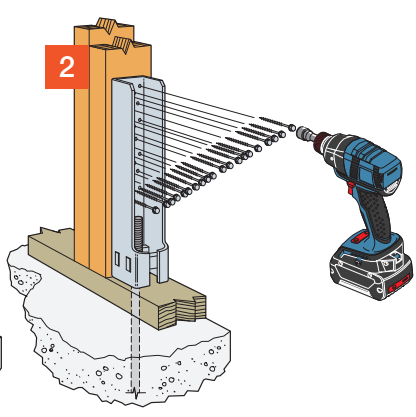
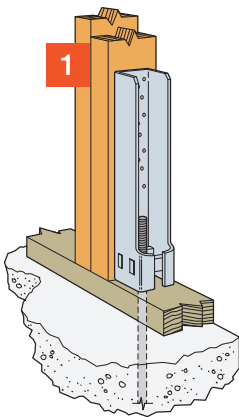
Se deben instalar los pernos con la tuerca y la arandela en lado opuesto del amarre.

**Bolt holes must be a minimum of 1/32" and a maximum of 1/16" larger than bolt diameter.**

Los orificios para los pernos deben ser al menos 1/32" y como máximo 1/16" más grandes que el diámetro del perno.

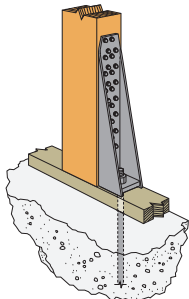


# HDQ8/HHDQ



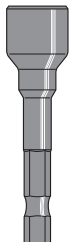
**Square washer  
required  
(included)**

Se requiere  
una arandela  
cuadrada  
(incluida)



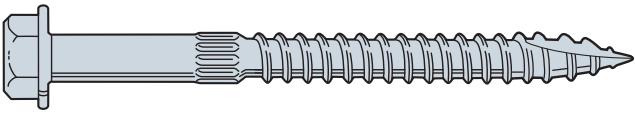
**Similar installation  
for HHDQ**

Instalación similar  
para HHDQ



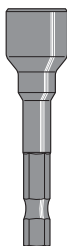
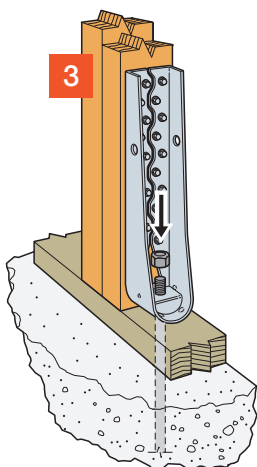
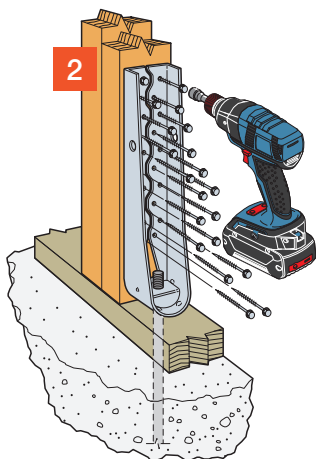
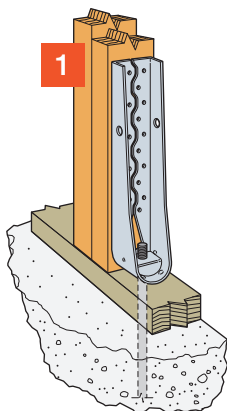
**Use 3/8" driver.**

Use un  
destornillador  
de 3/8".



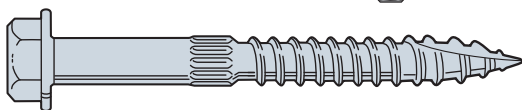
**1/4" x 3" Strong-Drive® SDS HEAVY-DUTY  
CONNECTOR Screw (included)**

Tornillo para CONECTORES DE SERVICIO PESADO  
SDS Strong-Drive de 1/4" x 3" (se incluye)



Use  $\frac{3}{8}$ " driver.

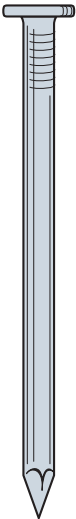
Use un destornillador de  $\frac{3}{8}$ ".



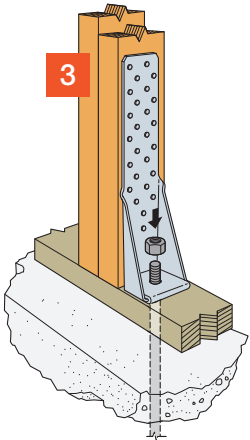
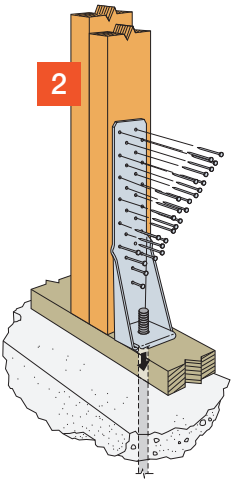
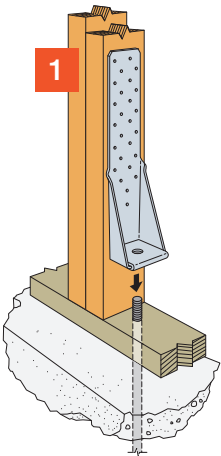
**$\frac{1}{4}$ " x  $2\frac{1}{2}$ " Strong-Drive® SDS HEAVY-DUTY CONNECTOR Screw (included)**

Tornillo para CONECTORES DE SERVICIO PESADO  
SDS Strong-Drive de  $\frac{1}{4}$ " x  $2\frac{1}{2}$ " (se incluye)

HTT4  
HTT5

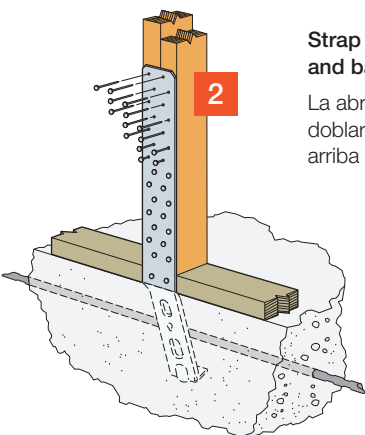
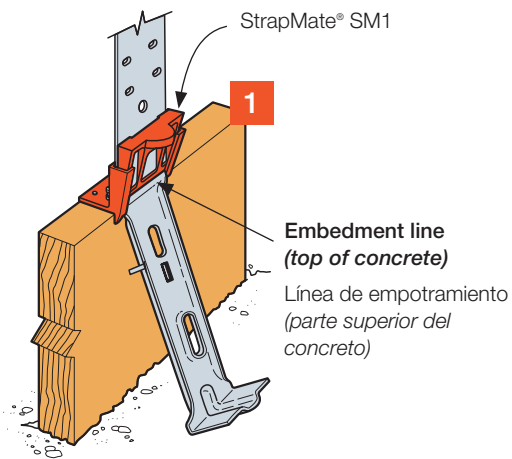


0.162" x 2½"





# LSTHD/STHD

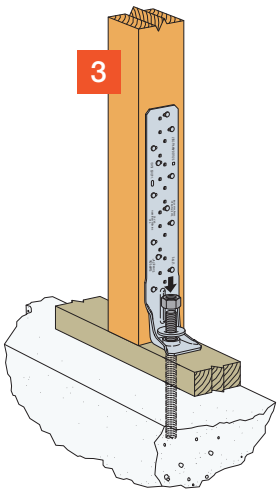
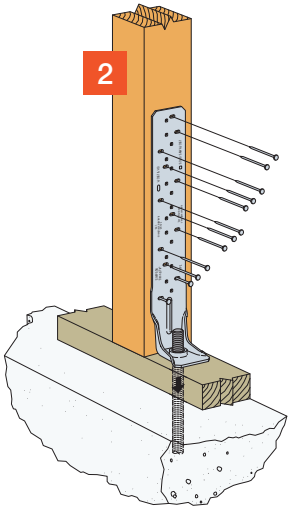
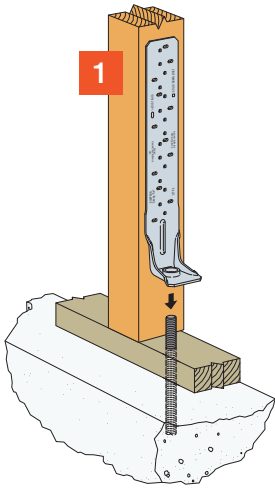


Strap may be bent down and back up one time only.

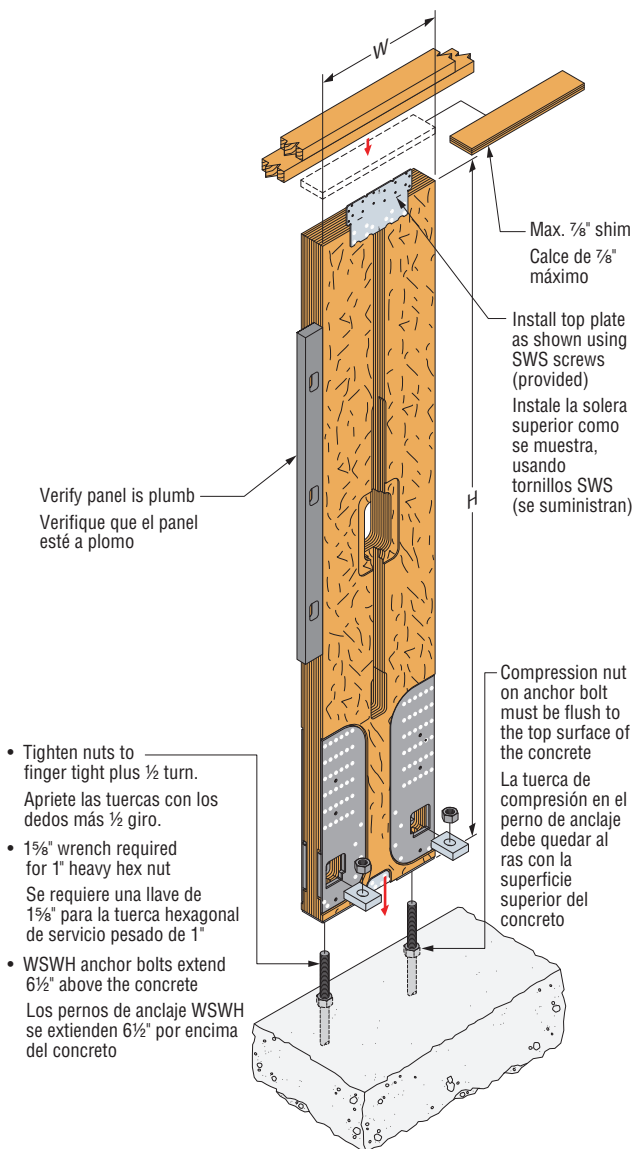
La abrazadera se puede doblar hacia abajo y hacia arriba sólo una vez.



**16d Sinker**  
**0.148" x 3 1/4"**  
(or 10d common 0.148 x 3")



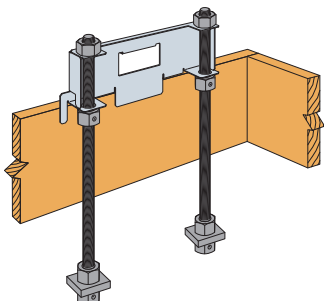
## WSWH Shearwall



**Standard Installation**  
Instalación estándar

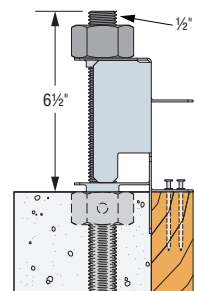
For installation details, go to [strongtie.com/wswh](http://strongtie.com/wswh).

Para obtener información detallada sobre la instalación, visite [strongtie.com/wswh](http://strongtie.com/wswh).



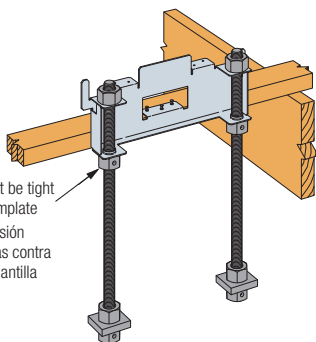
## WSWH-RT Exterior Installation

## Instalación exterior del WSWH-RT

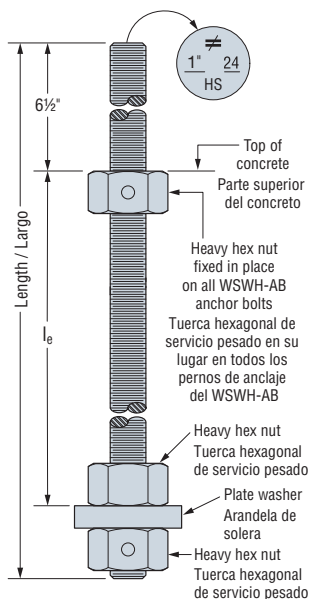


### Anchor Bolt Height (exterior)

Altura del perno de anclaje  
(exterior)

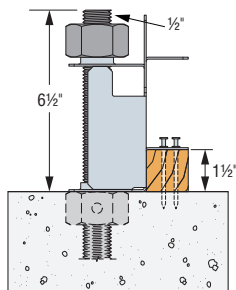


Compression nuts must be tight to the bottom of the template  
Las tuercas de compresión deben quedar apretadas contra la parte inferior de la plantilla



## WSWH-RT Interior Installation

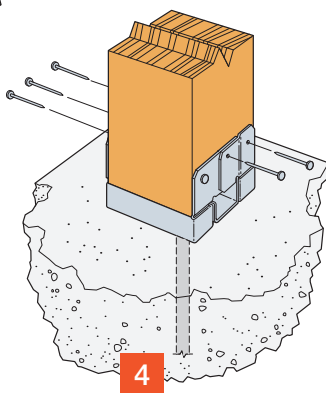
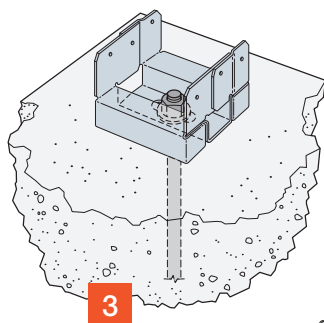
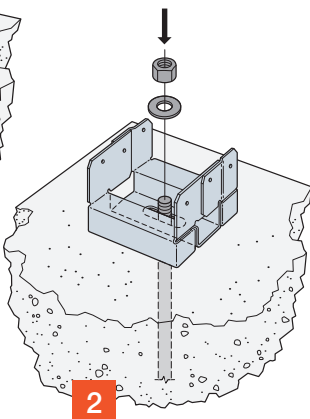
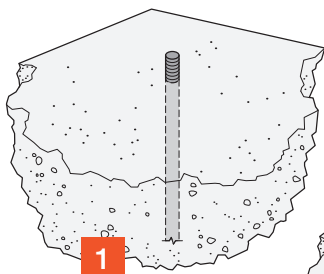
## Instalación interior del WSWH-RT



### Anchor Bolt Height (Interior)

Altura del perno de anclaje  
(interior)

## ABA



If using an adhesive anchor, see pp. 109–110 for instructions. See p. 111 for Titen HD® instructions.

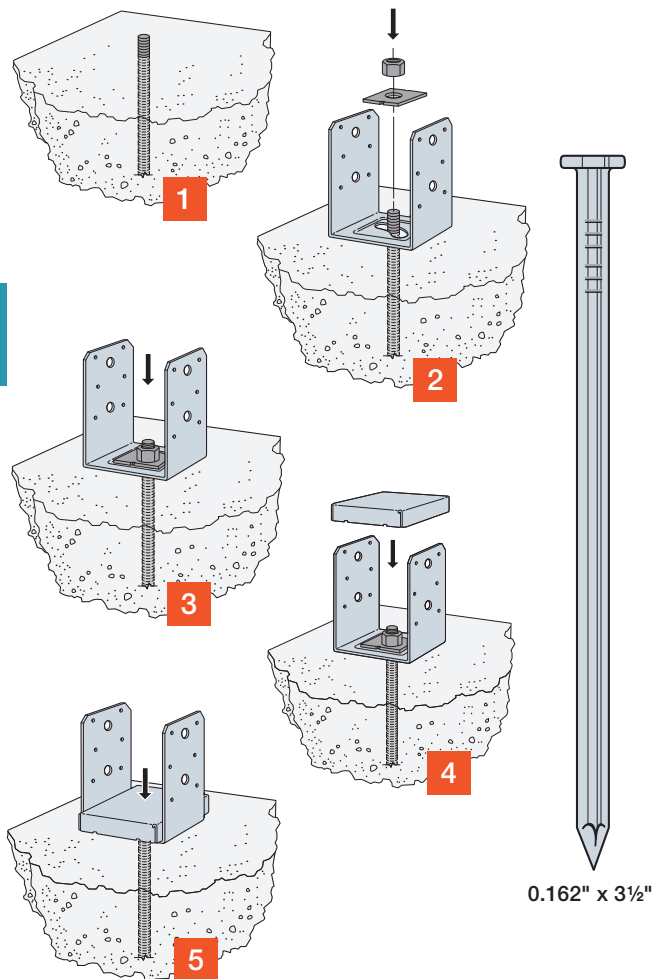
Si utiliza un anclaje adhesivo, consulte las instrucciones de las páginas 109–110. Consulte la página 111 para obtener instrucciones acerca de los tornillos Titen HD.



0.162" x 3½" — ABA46, ABA46R, ABA66, ABA66R

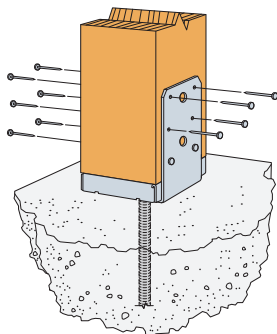


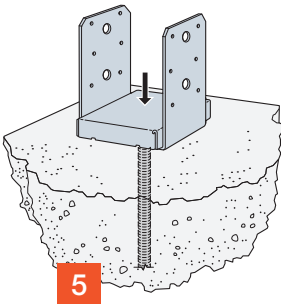
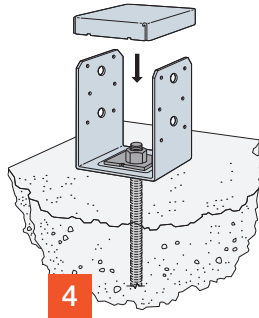
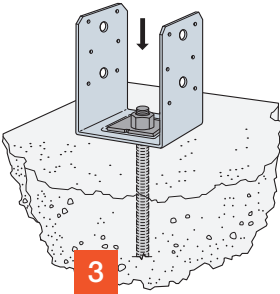
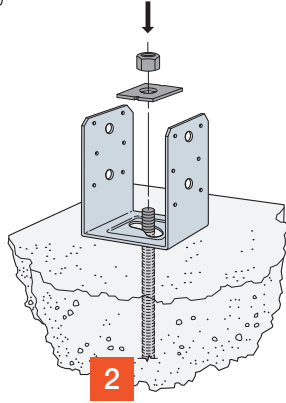
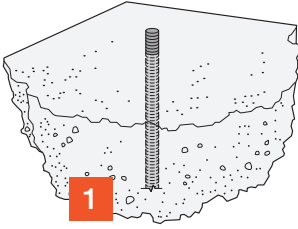
0.148" x 3" — ABA44, ABA44R



If using an adhesive anchor, see pp. 109–110 for instructions. See p. 111 for Titen HD® instructions.

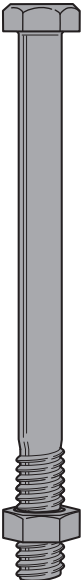
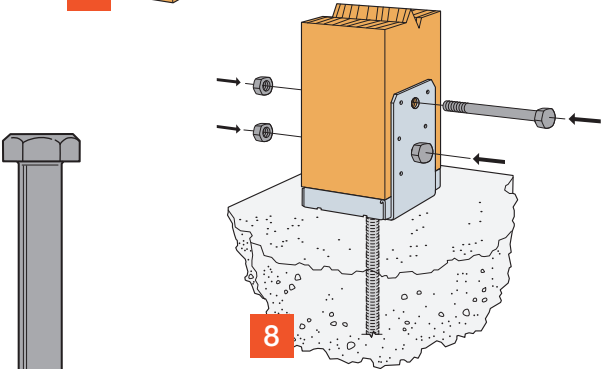
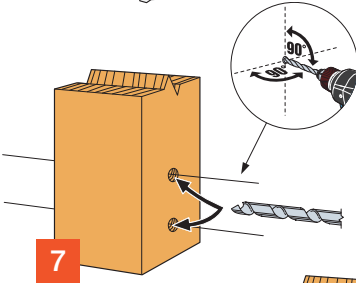
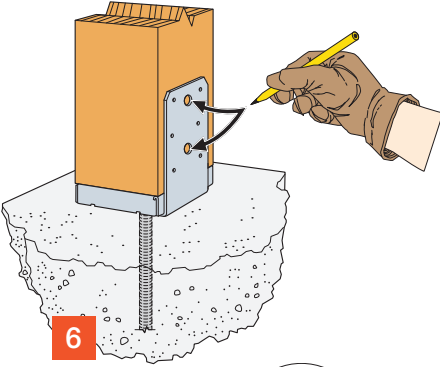
Si utiliza un anclaje adhesivo, consulte las instrucciones de las páginas 109–110. Consulte la página 111 para obtener instrucciones acerca de los tornillos Titen HD.





**If using an adhesive anchor, see pp. 109–110 for instructions. See p. 111 for Titen HD® instructions.**

Si utiliza un anclaje adhesivo, consulte las instrucciones de las páginas 109–110. Consulte la página 111 para obtener instrucciones acerca de los tornillos Titen HD.



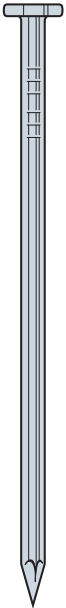
**Bolt Diameter:**  $\frac{1}{2}$ "  
**Length:**  
ABU44/ABU46 =  $4\frac{1}{2}$ "  
ABU66 =  $6\frac{1}{2}$ "

**Bolt holes must be a minimum of  $\frac{1}{32}$ " and a maximum of  $\frac{1}{16}$ " larger than bolt diameter.**

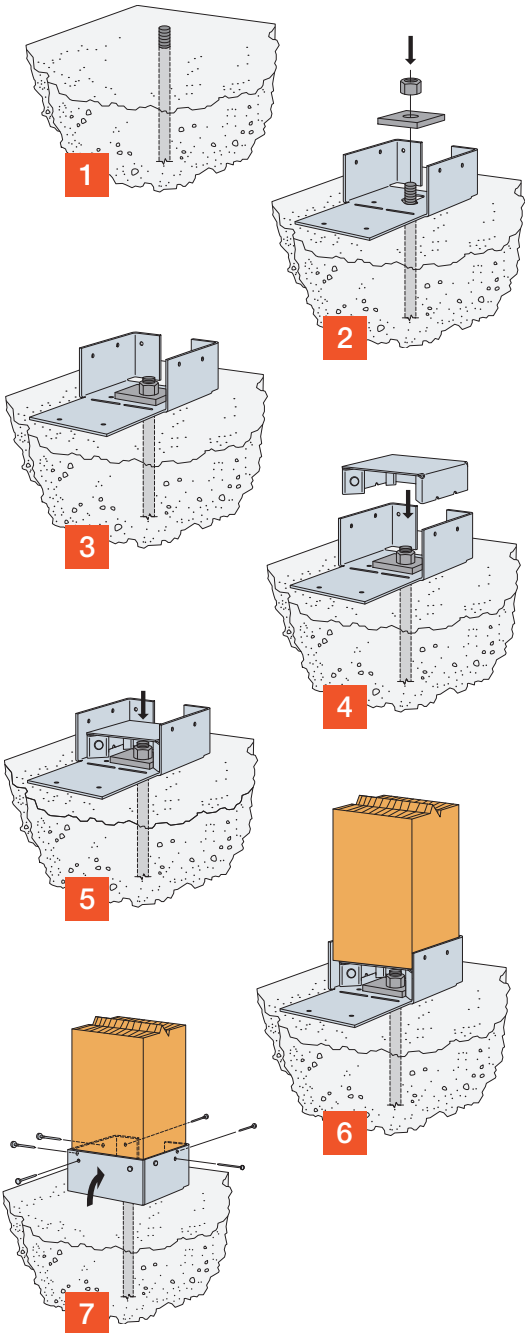
**Perno Torneado**  
**Diámetro:**  $\frac{1}{2}$ "  
**Largo:**  
ABU44/ABU46 =  $4\frac{1}{2}$ "  
ABU66 =  $6\frac{1}{2}$ "

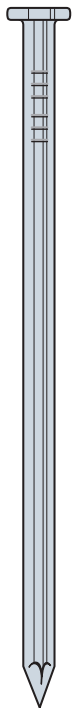
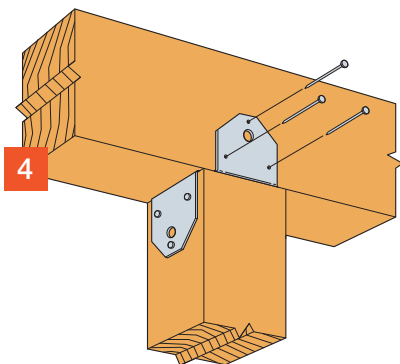
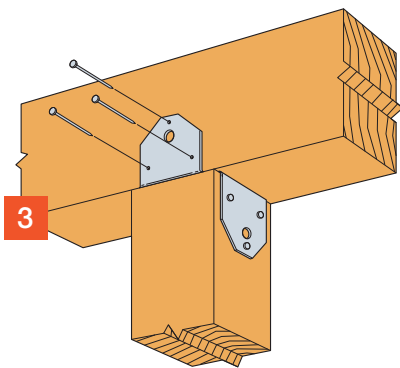
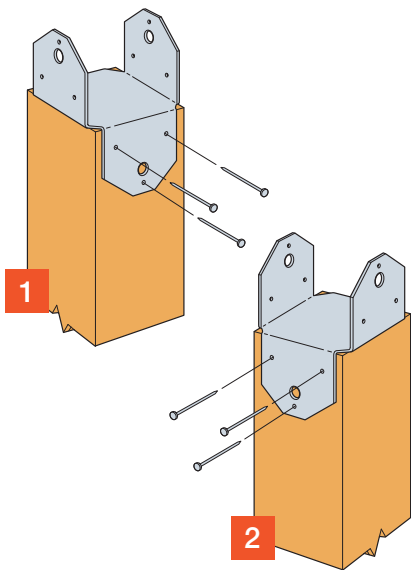
Los orificios para los pernos deben ser al menos  $\frac{1}{32}$ " y como máximo  $\frac{1}{16}$ " más grandes que el diámetro del perno.





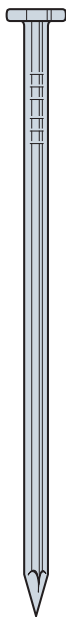
0.148" x 3"



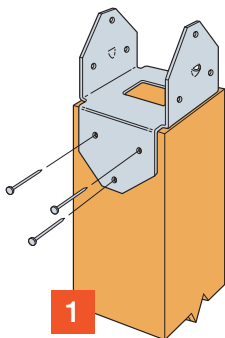


0.162" x 3 1/2"

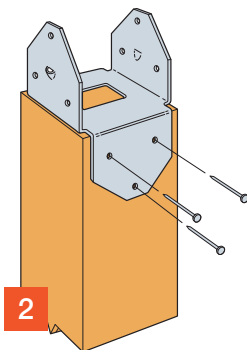
# BCS2-2/4



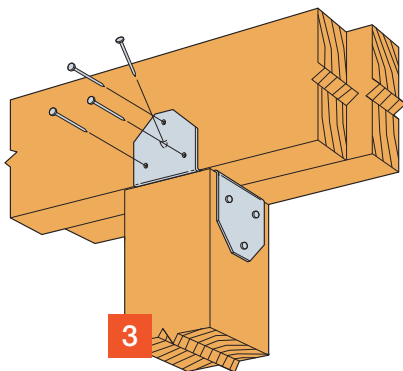
0.148" x 3"



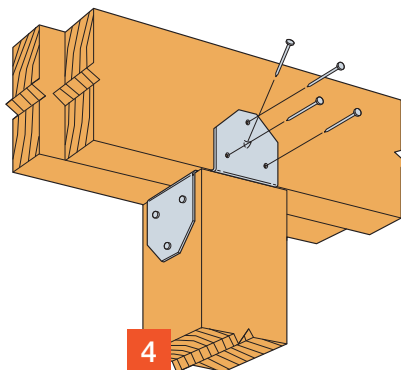
1



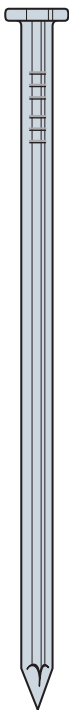
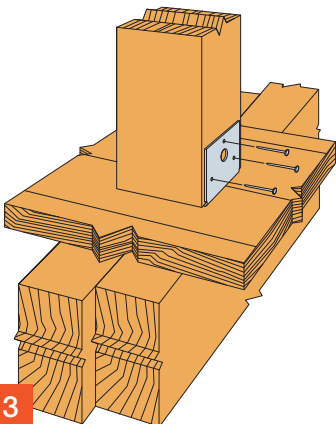
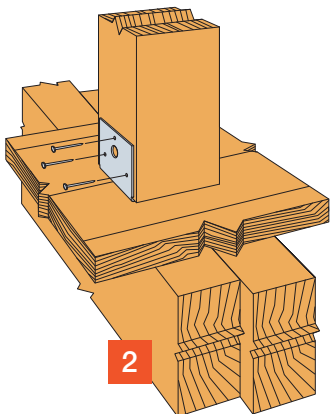
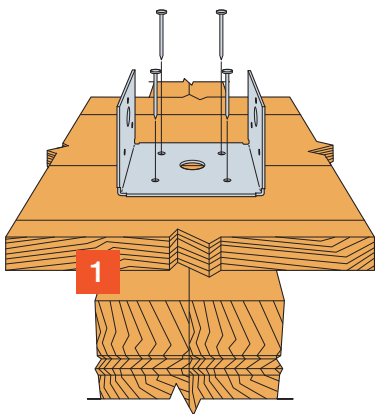
2



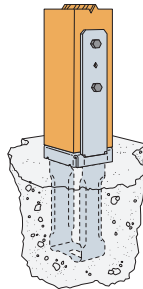
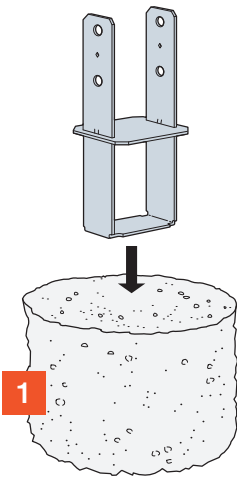
3



4

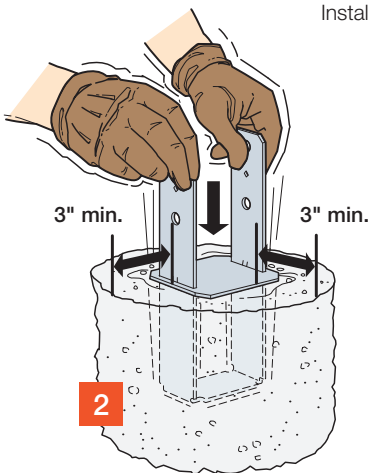


0.162" x 3 1/2"



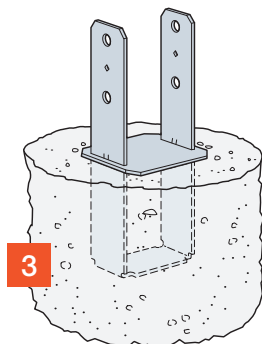
**Similar CBS Installation  
(typ.)**

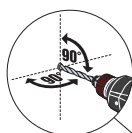
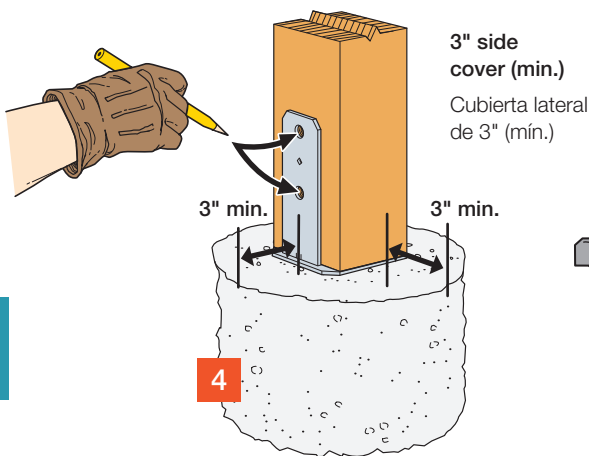
Instalación similar de CBS  
(típ.)



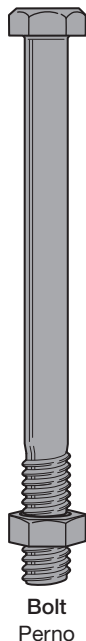
**3" side  
cover (min.)**

Cubierta lateral  
de 3" (mín.)



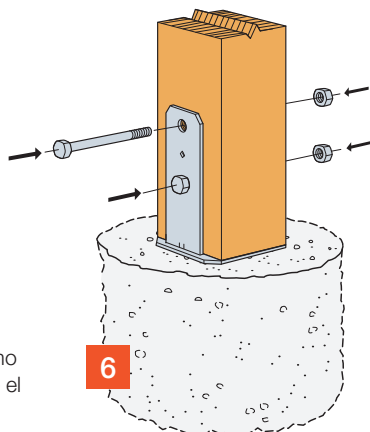


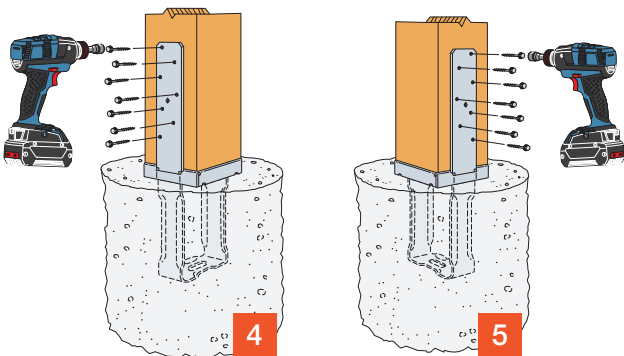
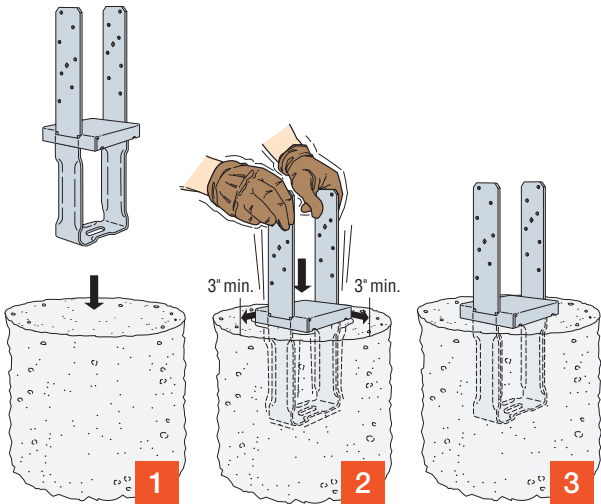
Model No. / N.º de Modelo	Bolt Size / Tamaño del Perno
CB44	5/8" x 4 1/2"
CBS44	5/8" x 4 1/2"
CB46	5/8" x 4 1/2"
CBS46	5/8" x 4 1/2"
CB48	5/8" x 4 1/2"
CB64	5/8" x 6 1/2"
CB66	5/8" x 6 1/2"
CBS66	5/8" x 6 1/2"
CB68	5/8" x 6 1/2"
CB86	3/4" x 8 1/2"
CB88	3/4" x 8 1/2"
CB1010	3/4" x 10 1/2"
CB1012	3/4" x 10 1/2"
CB1212	3/4" x 11 1/2"



**Bolt holes must be a minimum of 1/32" and a maximum of 1/16" larger than bolt diameter.**

Los orificios para los pernos deben ser al menos 1/32" y como máximo 1/16" más grandes que el diámetro del perno.



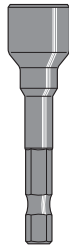


**1/4" x 2" Strong-Drive®**

**SDS HEAVY-DUTY CONNECTOR Screw**

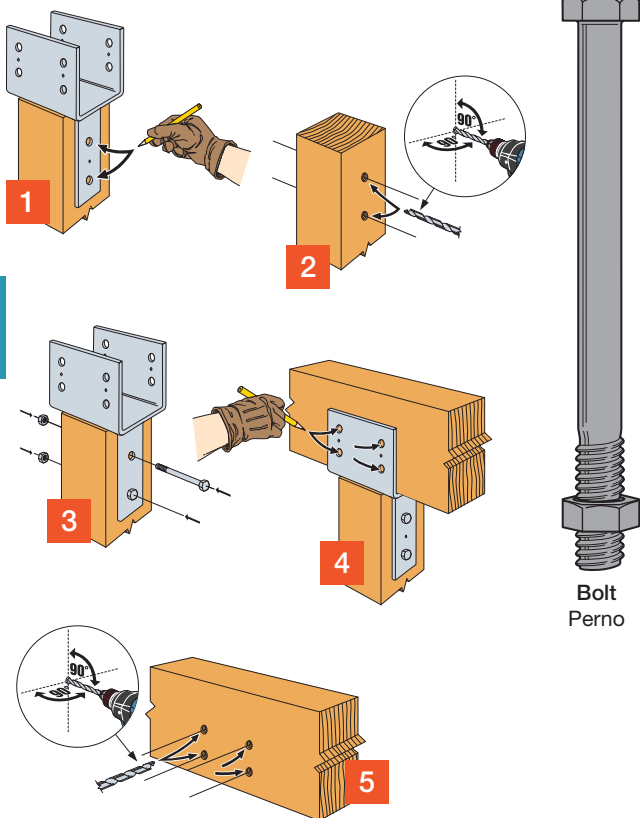
**Tornillo para CONECTORES DE SERVICIO PESADO**

**SDS Strong-Drive de 1/4" x 2"**

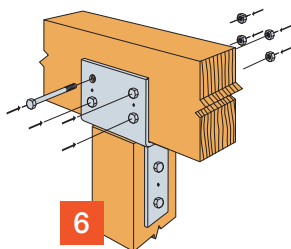


**Use 3/8" driver.**

**Use un  
destornillador  
de 3/8".**



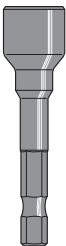
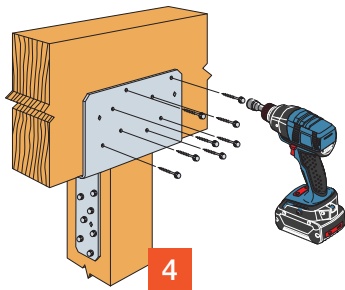
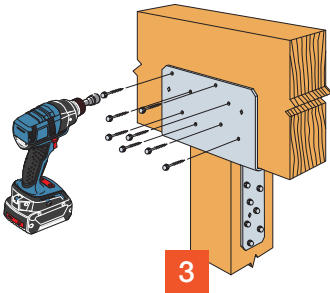
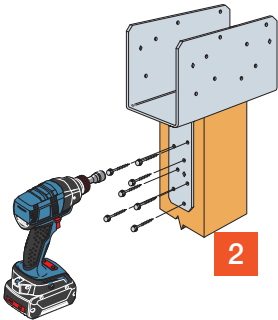
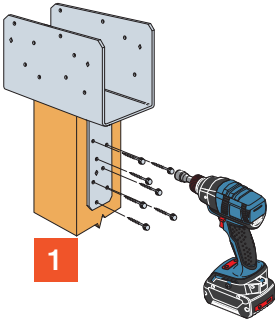
Beam or Column Width Ancho de Dintel o de Columna	Bolt Size Tamaño del Perno Torneado	
	Diameter Diámetro	Length Longitud
3 1/8"	5/8"	4 1/2"
3 1/2"	5/8"	4 1/2"
5 1/8"	3/4"	6 1/2"
5 1/2"	5/8"	6 1/2"
6 3/4"	3/4"	8"
7"	3/4"	8"
7 1/2"	3/4"	8 1/2"
8 3/4"	3/4"	10"
9 1/2"	3/4"	10 1/2"



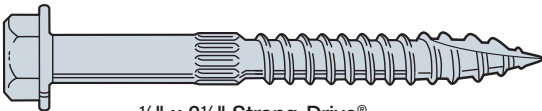
**Bolt holes must be a minimum of 1/32" and a maximum of 1/16" larger than bolt diameter.**

Los orificios para los pernos deben ser al menos 1/32" y como máximo 1/16" más grandes que el diámetro del perno.

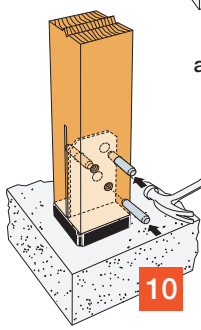
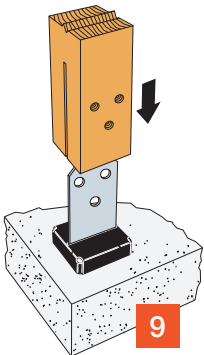
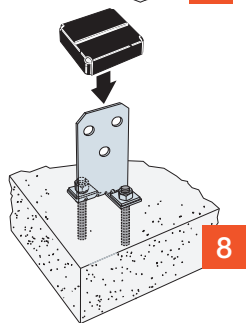
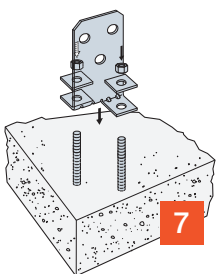
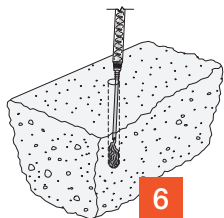
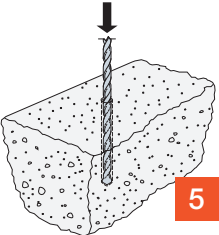
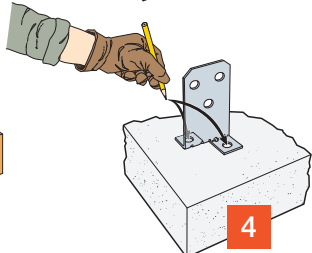
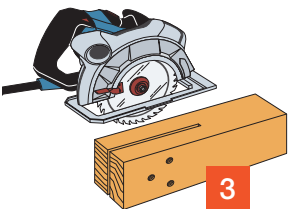
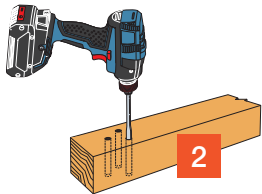
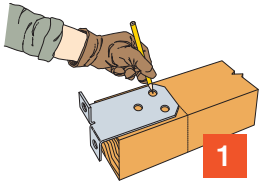




**Use  $\frac{3}{8}$ " driver.**  
Use un destornillador de  $\frac{3}{8}$ ".

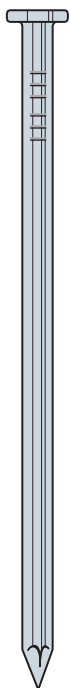


**$\frac{1}{4}$ " x  $2\frac{1}{2}$ " Strong-Drive®**  
**SDS HEAVY-DUTY CONNECTOR Screw**  
Tornillo para CONECTORES DE SERVICIO PESADO  
SDS Strong-Drive de  $\frac{1}{4}$ " x  $2\frac{1}{2}$ "

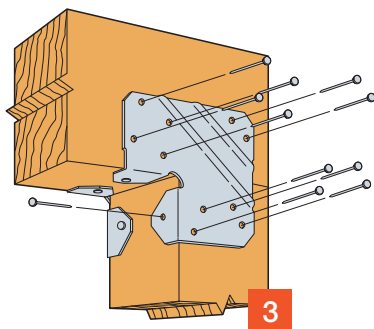
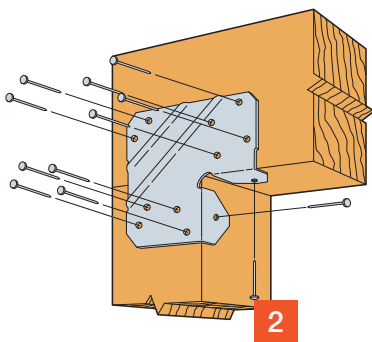
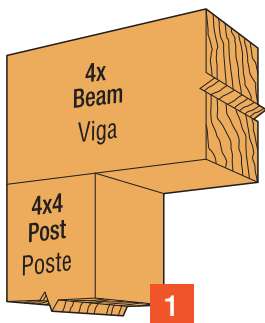


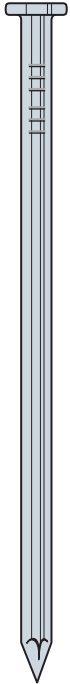
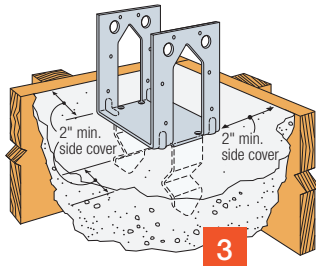
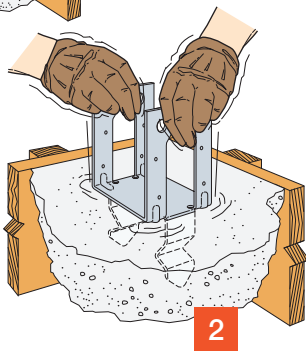
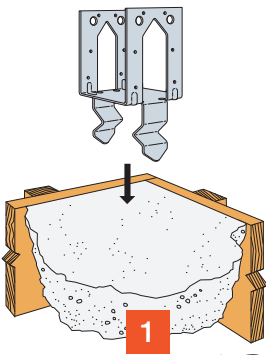
If using an adhesive anchor, see pp. 109–110 for instructions. See p. 111 for Titen HD® instructions.

Si utiliza un anclaje adhesivo, consulte las instrucciones de las páginas 109–110. Consulte la página 111 para obtener instrucciones acerca de los tornillos Titen HD.

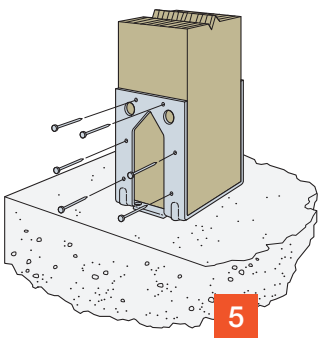
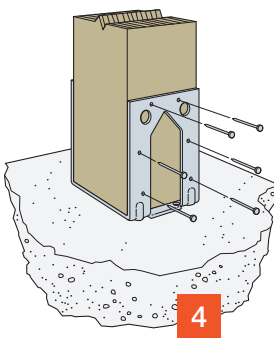


0.162" x 3½"

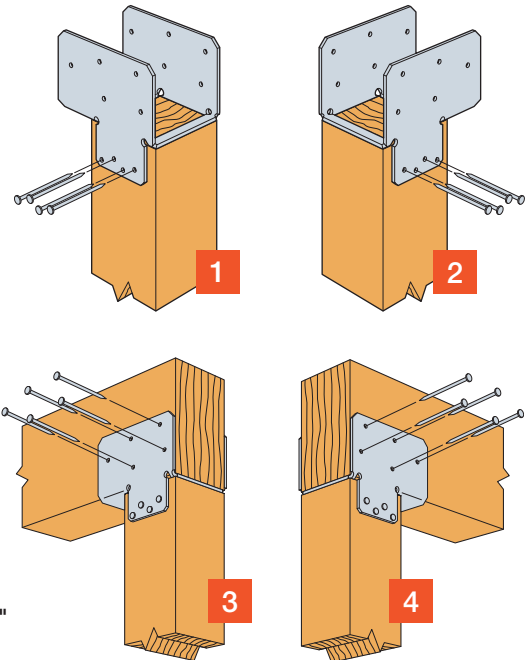
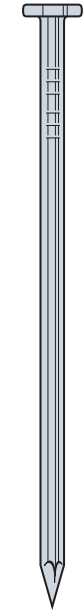
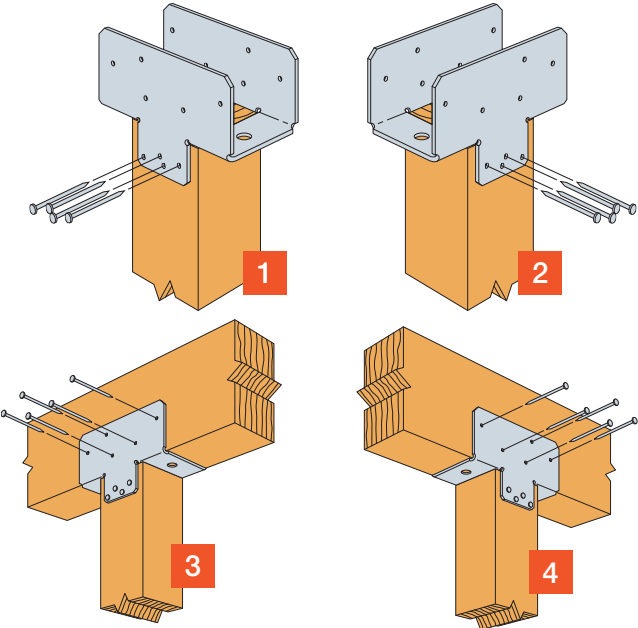




0.162" x 3 1/2"

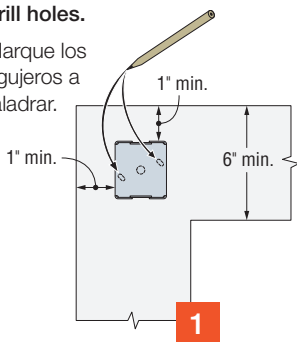


# PCZ/EPCZ



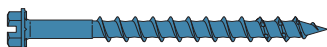
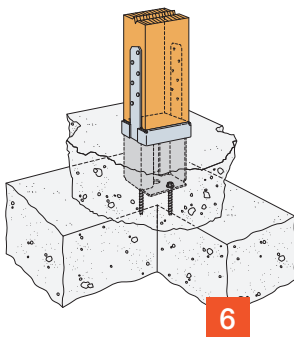
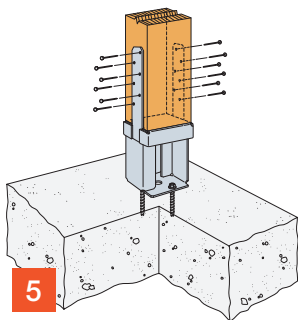
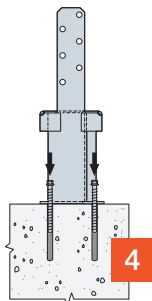
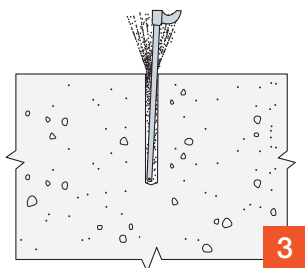
## Mark drill holes.

Marque los agujeros a taladrar.



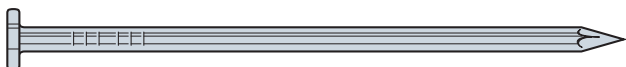
## Drill 1/4"-diameter hole 1/2" deeper than Titen Turbo™.

Perdore un agujero de 1/4" de diámetro a una profundidad de 1/2" mayor que el Titen Turbo.

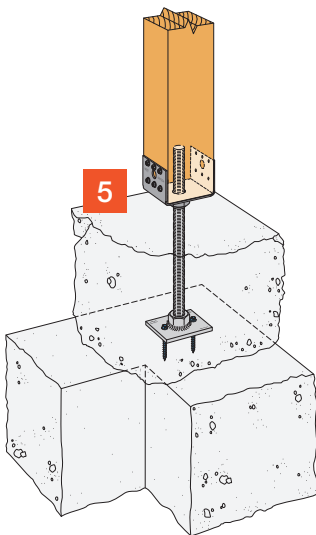
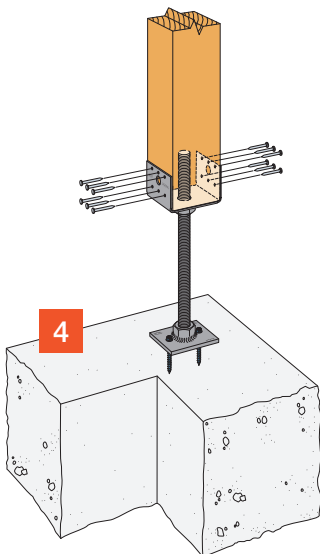
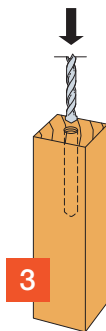
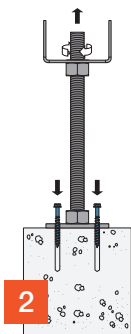
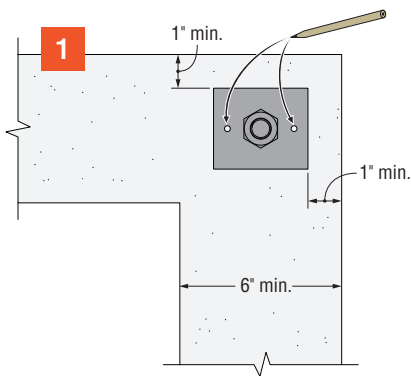


For installation in concrete, use Titen Turbo masonry screw 1/4" x 1 1/4".

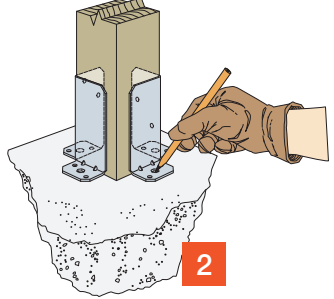
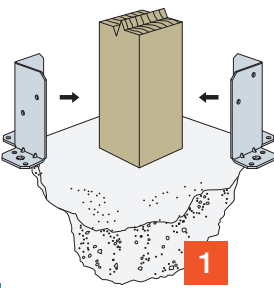
Para instalaciones en concreto, utilice tornillo con mampostería Titen Turbo de 1/4" x 1 1/4".



0.148" x 3"

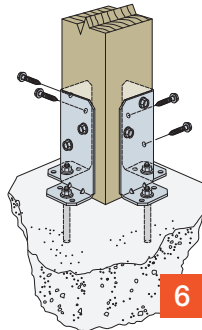
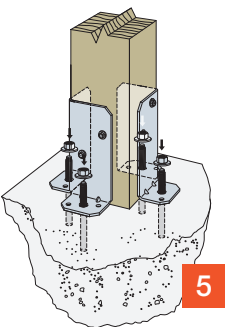
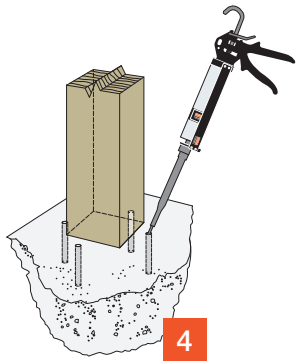
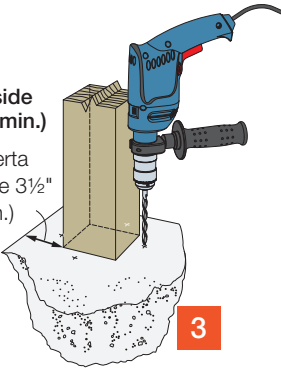


0.148" x 1 1/2"



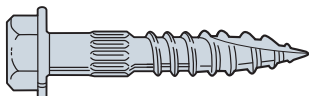
**3½" side  
cover (min.)**

Cubierta  
lateral de 3½"  
(mín.)



If using an adhesive anchor, see pp. 109–110 for instructions.  
See p. 111 for Titen HD® instructions.

Si utiliza un anclaje adhesivo,  
consulte las instrucciones  
de las páginas 109–110.  
Consulte la página 111  
para obtener instrucciones  
acerca de los tornillos  
Titen HD.



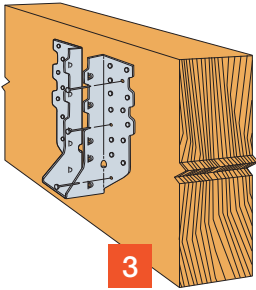
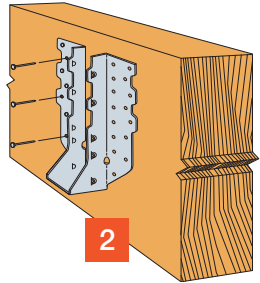
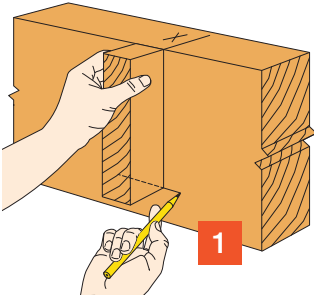
**¼" x 1½" Strong-Drive®**  
**SDS HEAVY-DUTY CONNECTOR Screw**  
Tornillo para CONECTORES DE SERVICIO  
PESADO SDS Strong-Drive de ¼" x 1½"



# Solid Sawn Joist Hangers

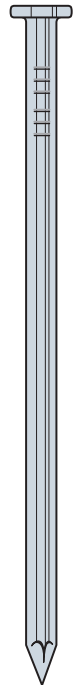
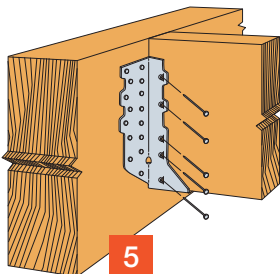
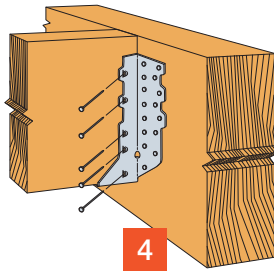
**SIMPSON**  
**Strong-Tie**

## HUS

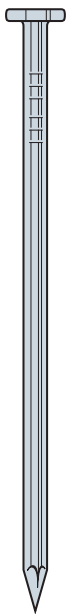


**Fill all round holes**

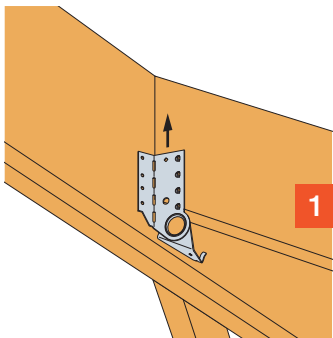
Llene todos los orificios  
redondos



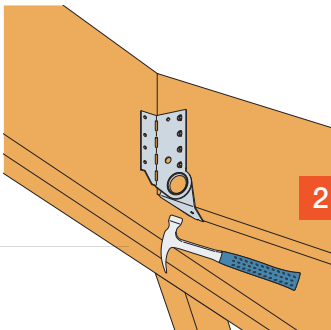
0.162" x 3 1/2"



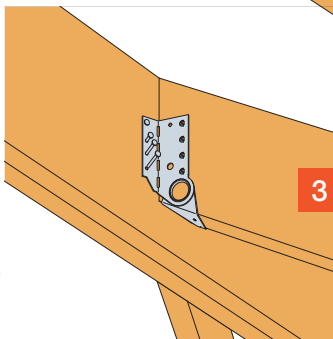
0.148" x 3"



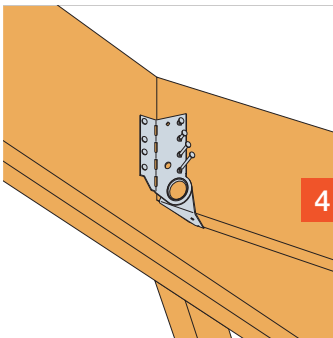
1



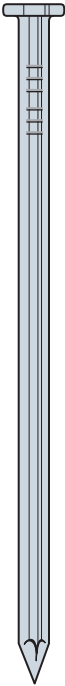
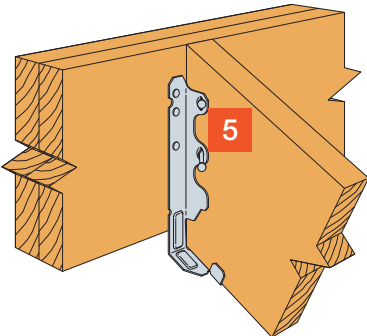
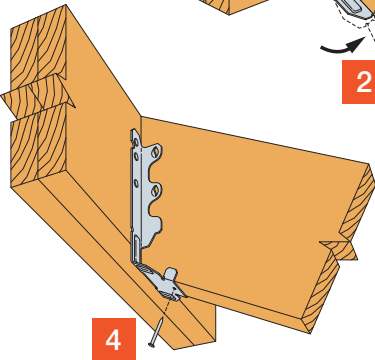
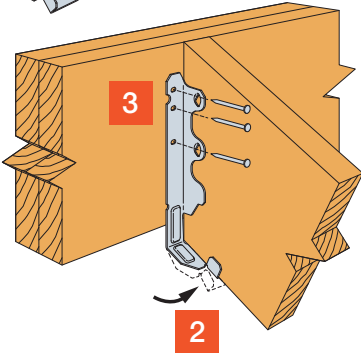
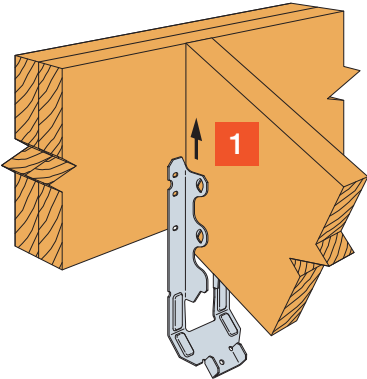
2



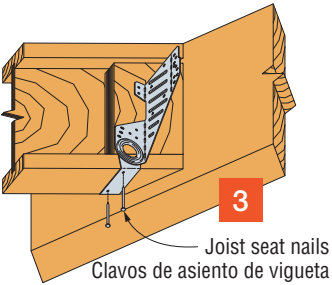
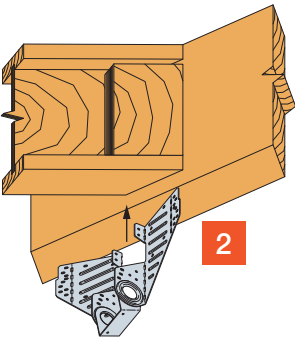
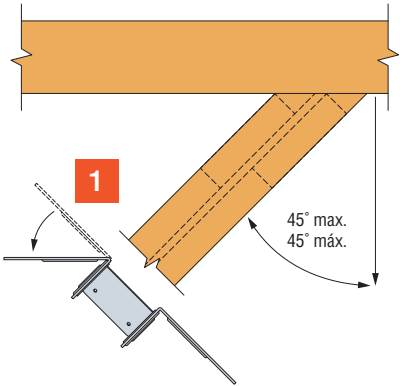
3

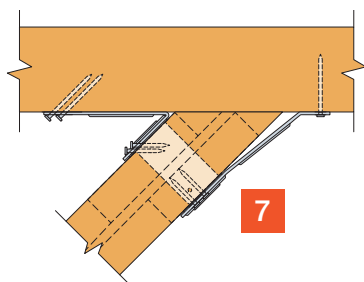
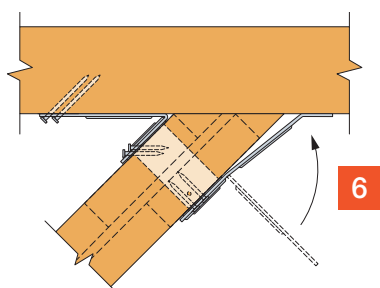
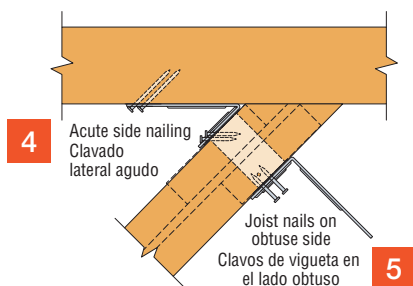


4



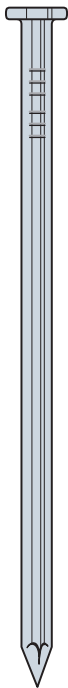
0.162" x 3 1/2"





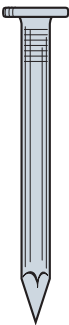
Model No. N.º de Modelo	Fasteners / Sujetadores	
	Face (in.) Frontal (pulg.)	Joist (in.) Vigueta (pulg.)
LSSR1.81Z	0.148 x 2½	0.148 x 1½
LSSR2.1Z		
LSSR2.37Z		
LSSR2.56Z		
LSSR26Z		
LSSR28Z		
LSSR210Z	0.162 x 2½	0.162 x 2½
LSSR210-2Z		
LSSR410Z		

**Header**  
Viga Cabezal

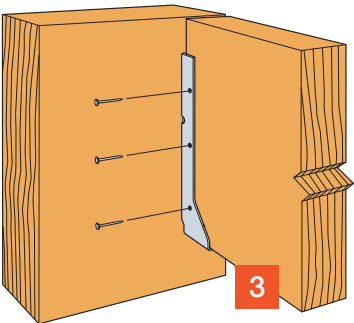
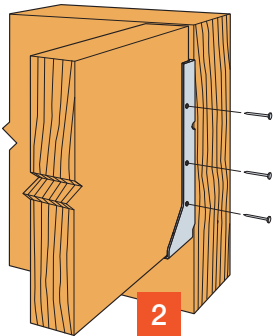
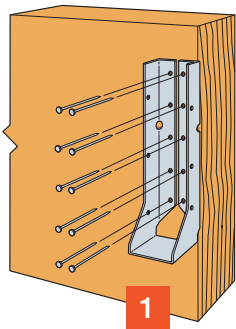


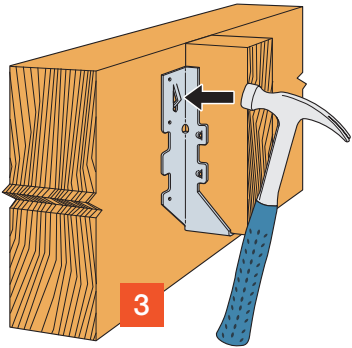
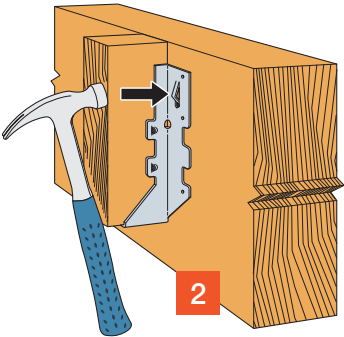
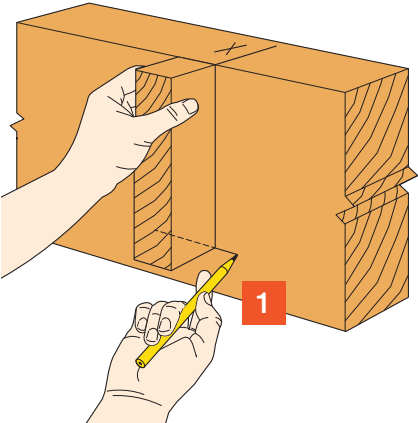
0.162" x 3 1/2"

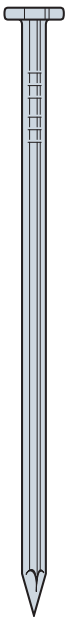
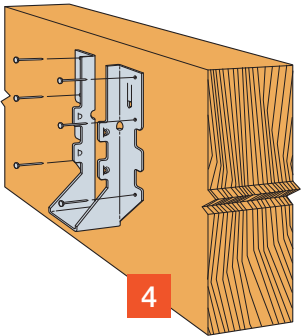
**Joist**  
Viga



0.148" x 1 1/2"

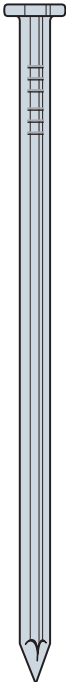






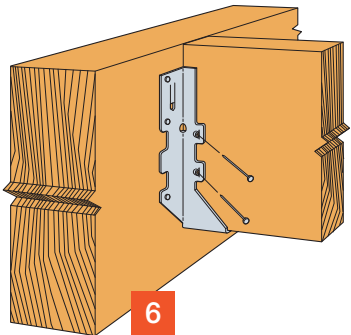
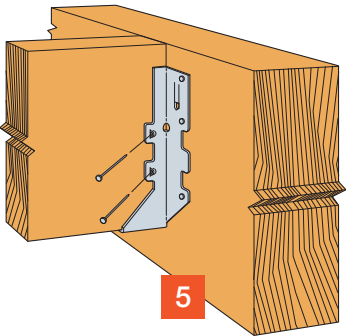
**0.148" x 3"**  
**for single 2x.**

0.148" x 3"  
para  
un solo 2x.

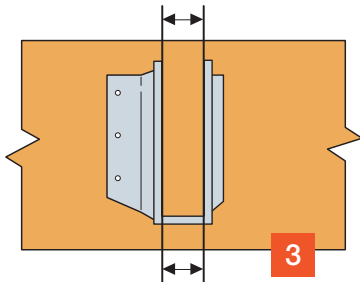
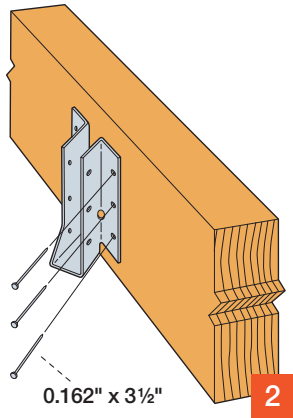
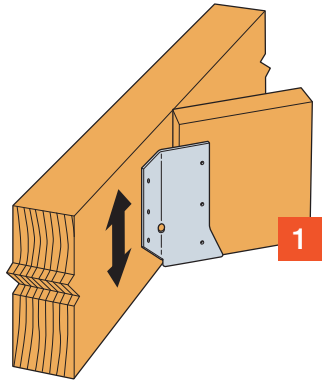
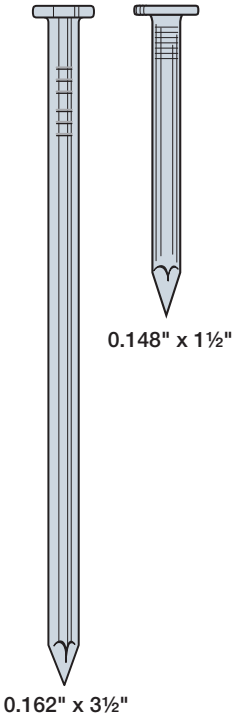


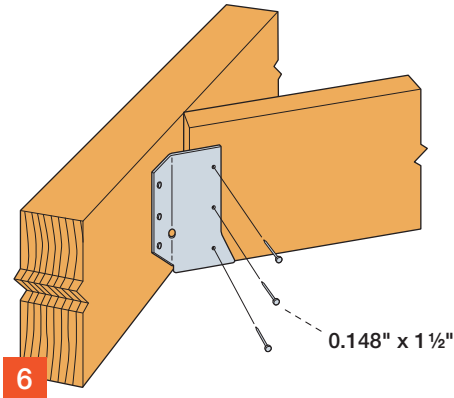
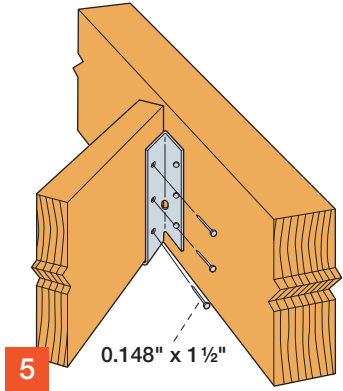
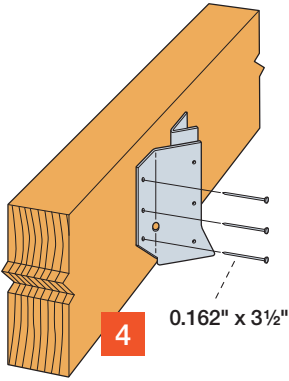
**0.162" x 3 1/2"**  
**for all**  
**others.**

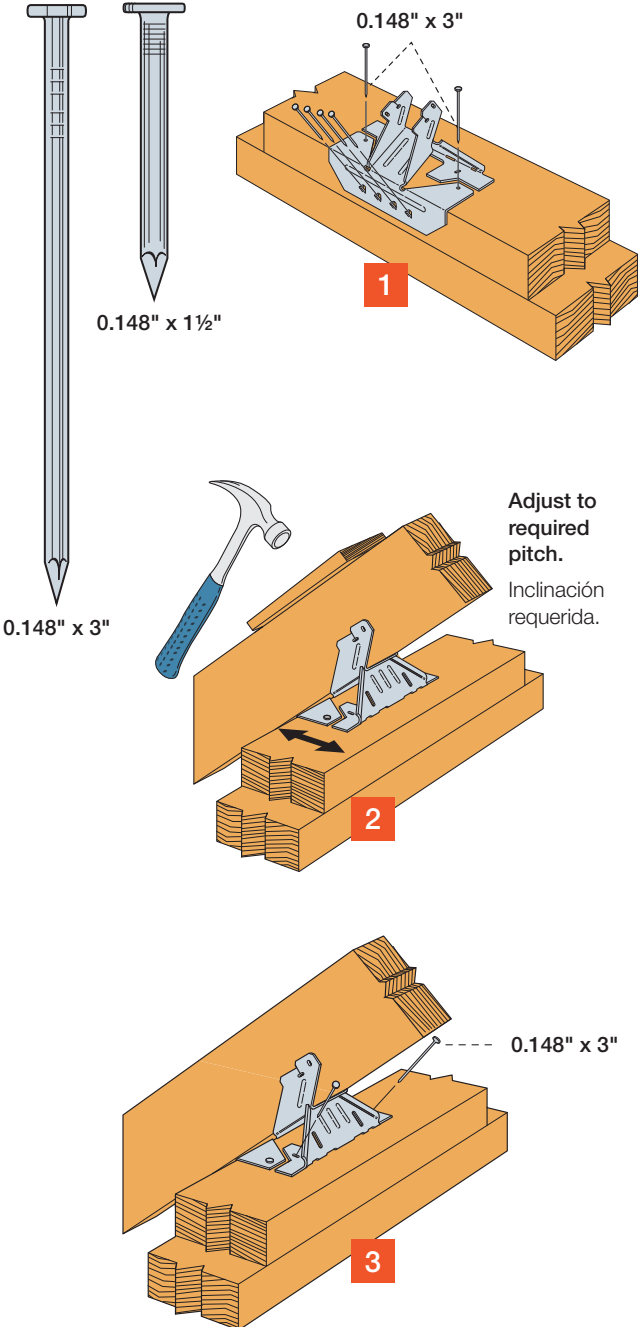
0.162" x 3 1/2"  
para  
los demás.

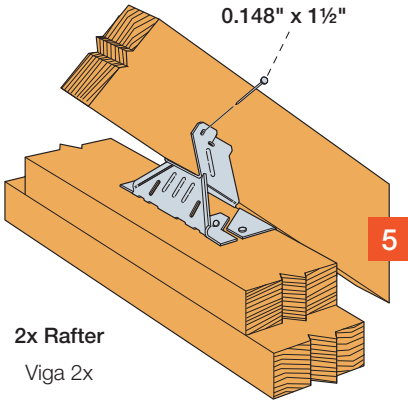
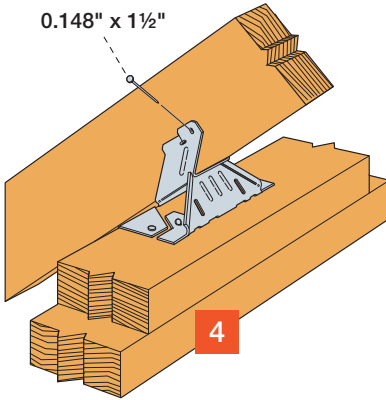






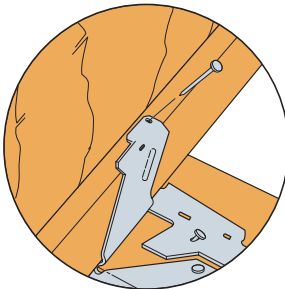






**2x Rafter**

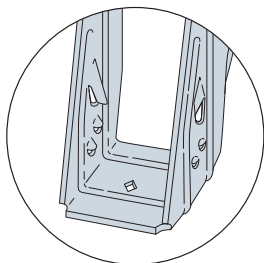
Viga 2x



**I-Joist Rafter**

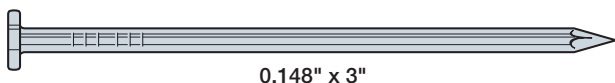
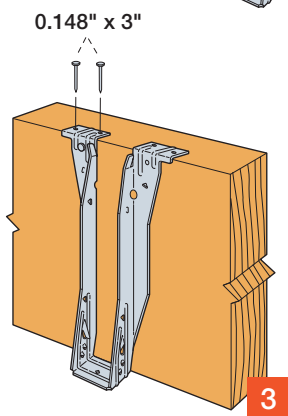
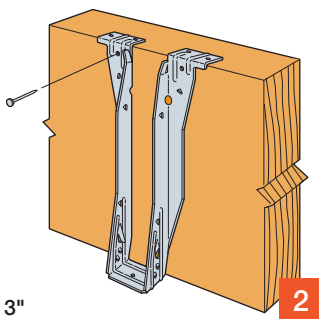
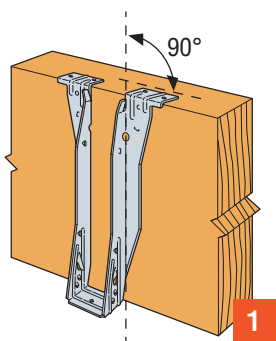
Viga de vigueta en I

## ITS

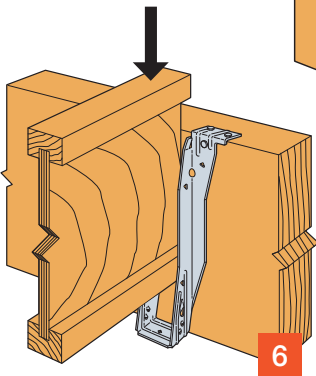
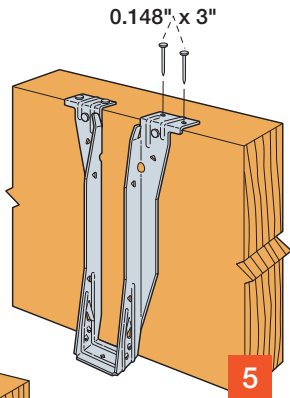
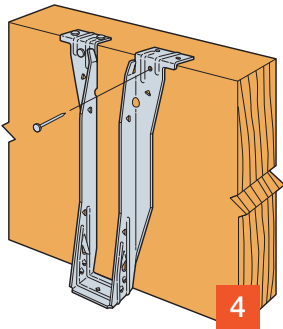


The Strong-Grip™ seat allows the I-joist to “snap” in securely — no joist nails needed.

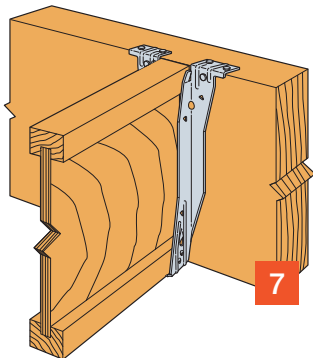
El asiento Strong-Grip™ permite que la viga ‘I’ “encaje” con firmeza; no se necesitan clavos para vigas.



0.148" x 3"

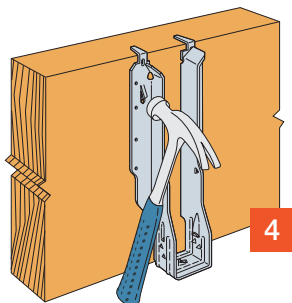
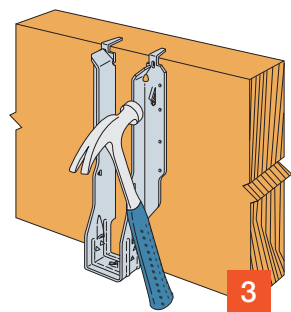
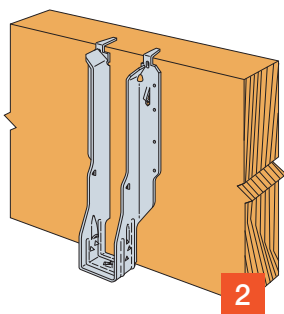
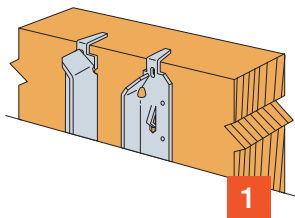
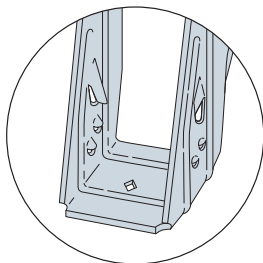


**No nails required in joist.**  
No es necesario clavar  
clavos en la viga.

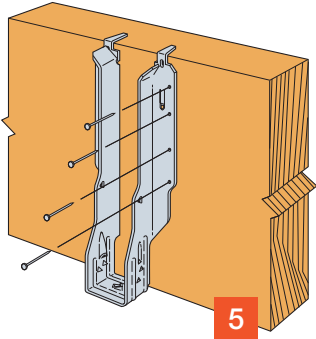


The Strong-Grip™ seat allows the I-joist to “snap” in securely — no joist nails needed.

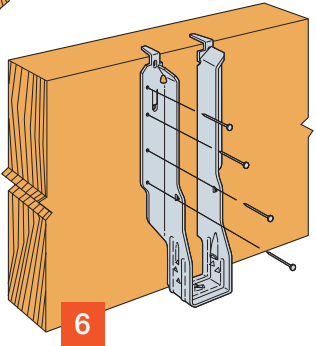
El asiento Strong-Grip™ permite que la viga en 'I' “encaje” con firmeza; no se necesitan clavos para vigas.



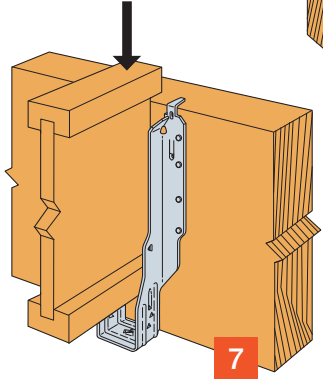
0.148" x 3"



5

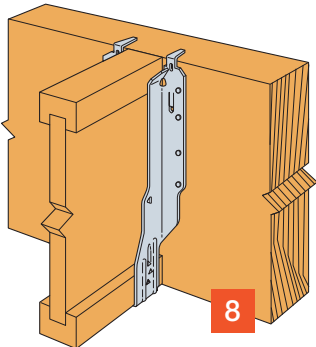


6



7

**No nails required in joist.**  
No es necesario clavar  
clavos en la viga.



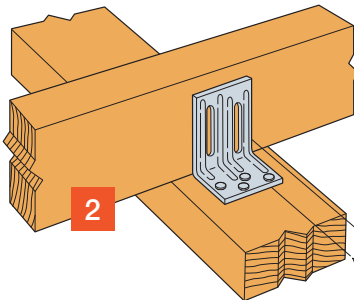
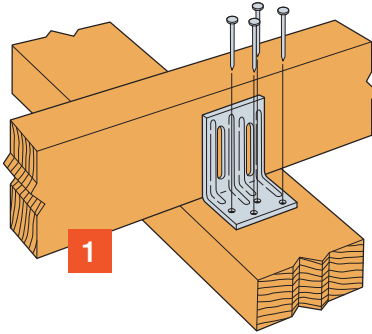
8



# Plated Truss Connectors

**SIMPSON**  
**Strong-Tie**

## DTC

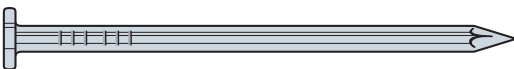


**Install nail in center of slot.**

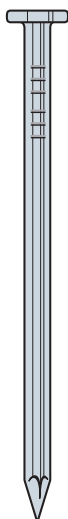
Instale el clavo en el centro de la ranura.

**Truss nails not driven flush.**

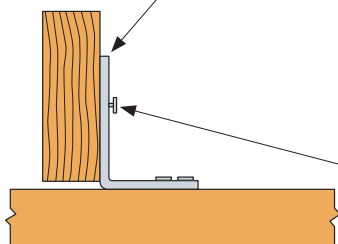
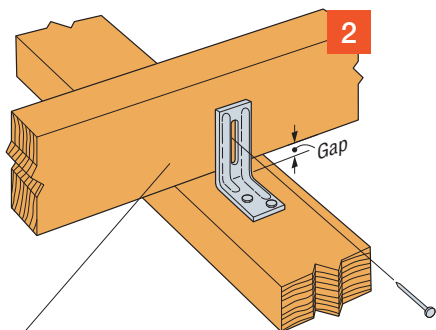
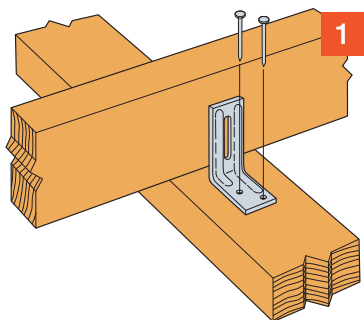
Los clavos de la cercha no deberían asentarse contra el conector.



0.131" x 2½"



0.131" x 1 1/2"



**Install nail in center of slot.**

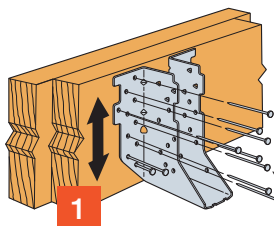
Instale el clavo en el centro de la ranura.

**Truss nails not driven flush.**

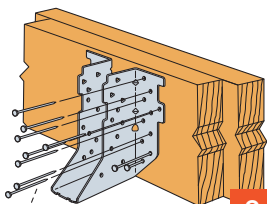
Los clavos de la cercha no deberían asentarse contra el conector.

**See p. 117 for Strong-Drive® SDPW Deflector Screw**

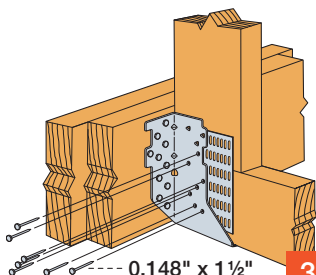
Consulte la página 117 para información acerca del tornillo deflector Strong-Drive SDPW

**1**

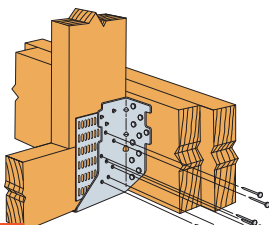
0.162" x 3 1/2"

**2**

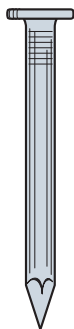
0.162" x 3 1/2"

**3**

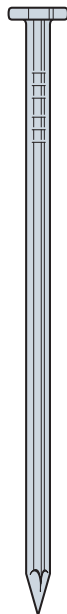
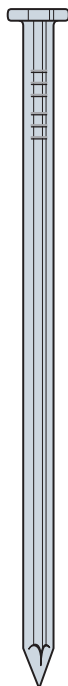
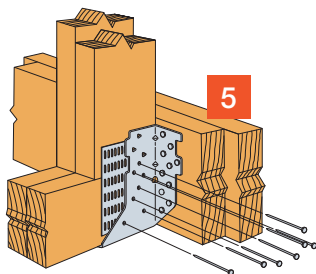
0.148" x 1 1/2"

**4**

0.148" x 1 1/2"

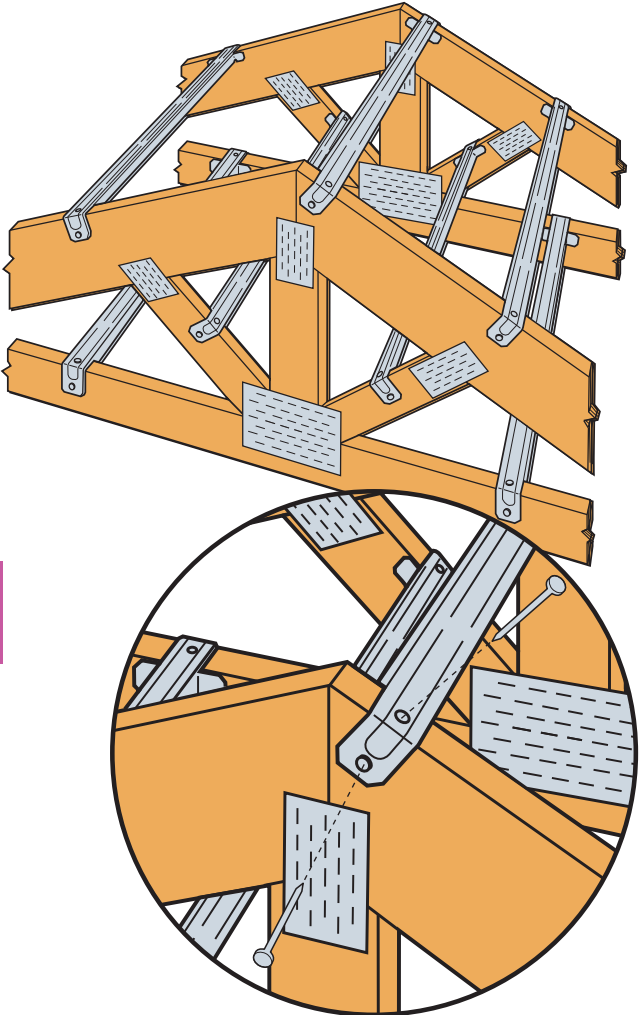


0.148" x 1 1/2"

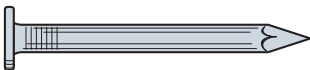
0.148" x 3"  
for double  
2x joists0.148" x 3"  
para viguetas  
dobles 2x0.162"  
x 3 1/2"**5**

For double truss, use  
0.148" x 3" nails into trusses.

Para cerchas dobles, use clavos  
0.148" x 3" insertados en las cerchas. 71

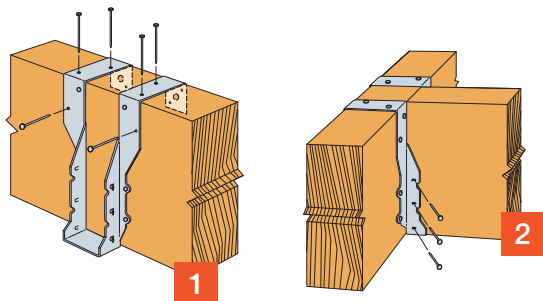


Nailing requirement  
requisito de clavado



0.148" x 1 1/2"

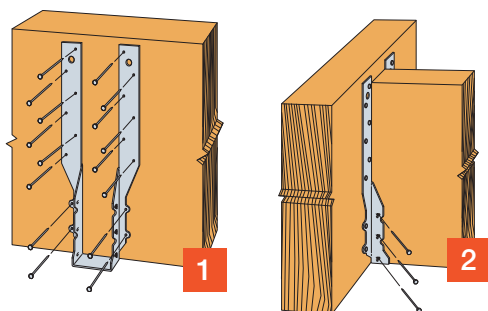
**Top-Mount Condition / Condición de Montaje Superior**



**Install joist nails both sides.**

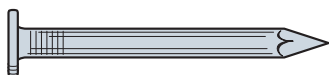
Instale clavos para vigas a ambos lados.

**Face-Mount Condition / Condición de Montaje Sobre Cara**

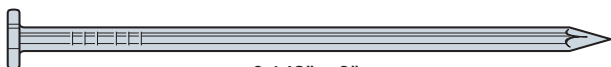


**Install joist nails both sides.**

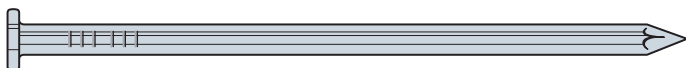
Instale clavos para vigas a ambos lados.



0.148" x 1½"



0.148" x 3"

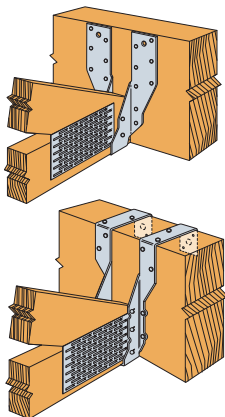


0.162" x 3½"

## Face-Mount Installation on Solid Header

Instalación Sobre Viga Cabezal Sólida de Montaje frontal

Model Modelo	Top and Face Encima and Cara	Joist Vigueta
THA29	(16) 0.148" x 3"	(4) 0.148" x 3"
THA213	(14) 0.148" x 3"	(4) 0.148" x 3"
THA413		
THA218	(18) 0.148" x 3"	(4) 0.148" x 3"
THA218-2	(22) 0.162" x 3 1/2"	(6) 0.162" x 3 1/2"
THA418		
THA422		
THA222-2		
THA422-2	(30) 0.162" x 3 1/2"	(6) 0.162" x 3 1/2"
THA426		
THA426-2	(38) 0.162" x 3 1/2"	(6) 0.162" x 3 1/2"

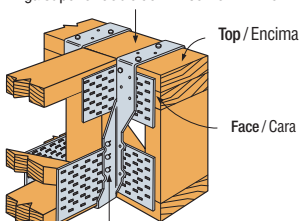


## Installation on Truss

Instalación Sobre Cercha

Nail Location Ubicación de Los Clavos	Qty./Nail Cant./Clavo
Top/Encima	(4) 0.162" x 3 1/2"
Face/Cara	(4) 0.162" x 3 1/2"
Joist Vigueta	Fill all holes with 0.162" x 3 1/2" Llene todos los orificios con clavos 0.162" x 3 1/2"

Double 2x4 top chord minimum  
Viga superior doble de 2x4 como mínimo



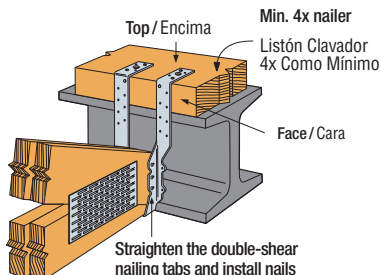
Straighten the double-shear nailing tabs and install nails straight.

Enderece las pestañas de clavado de doble penetración e instale los clavos rectos.

## Installation on Nailer

Instalación en Listón Clavador

Nail Location Ubicación de Los Clavos	4x Nailer / Listón Clavador 4x
Top/Encima	(4) 0.162" x 3 1/2"
Face/Cara	(4) 0.162" x 3 1/2"
Joist Vigueta	Fill all holes with 0.162" x 3 1/2" Llene todos los orificios con clavos 0.162" x 3 1/2"

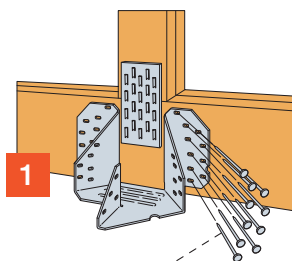


Straighten the double-shear nailing tabs and install nails straight into the joist.

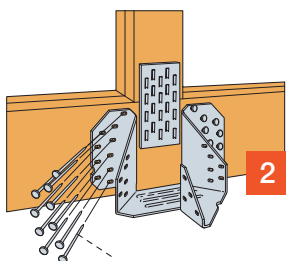
Enderece las pestañas de clavado de doble penetración e instale los clavos rectos en la viga.

See **Wood Construction Connectors** catalog for additional nailing specifications.

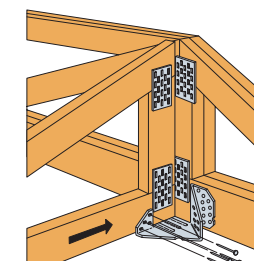
Consulte el catálogo de construcción de madera para obtener especificaciones de clavado adicionales.



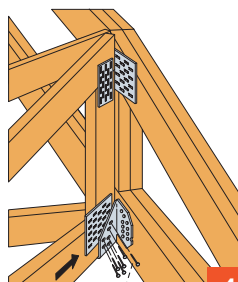
0.162" x 3½"



0.162" x 3½"



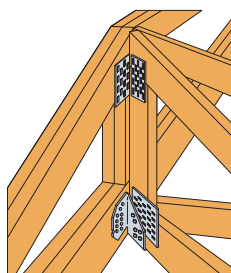
0.148" x 1½"



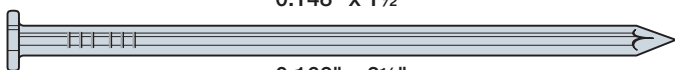
0.148" x 1½"

**Left-hand hip  
installation similar.**

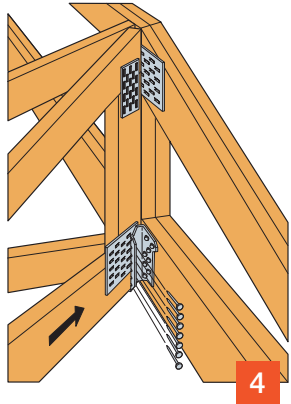
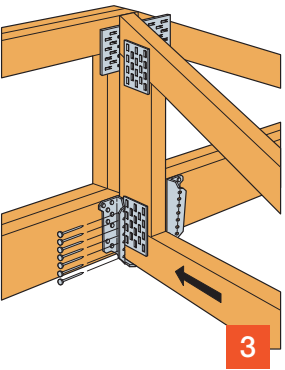
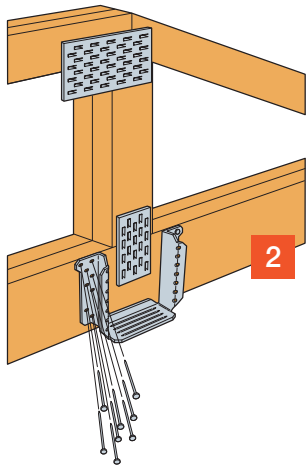
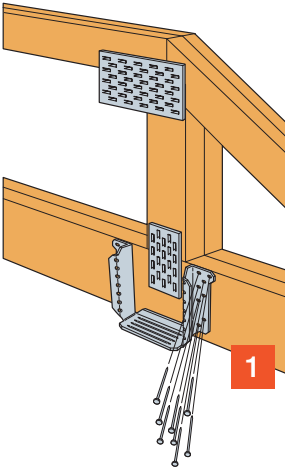
Similar a la instalación  
'izquierda' de cumbre.



0.148" x 1½"



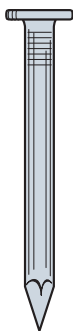
0.162" x 3½"



0.148" x 3"

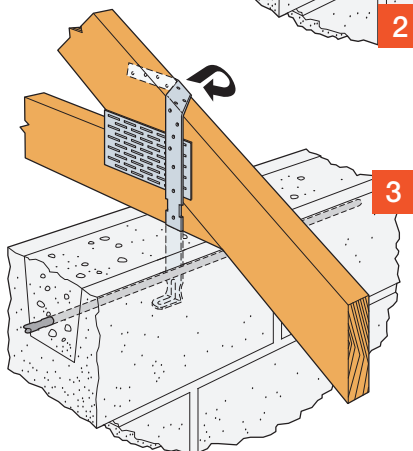
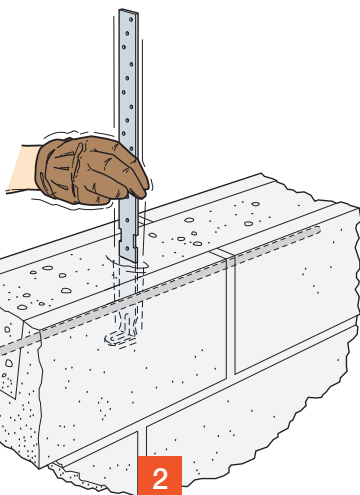
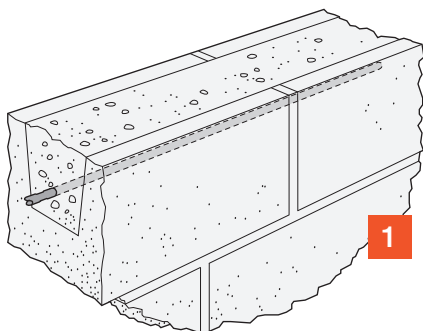


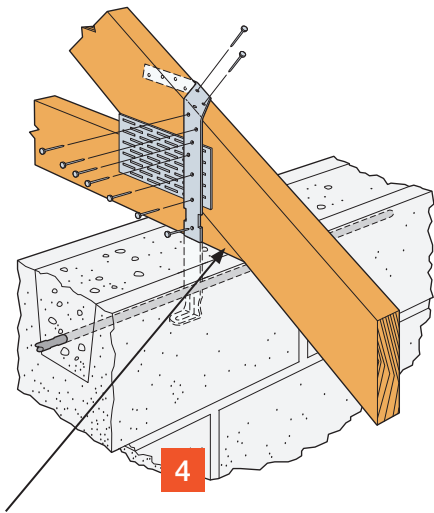
## HETA/META



0.148" x 1½"  
Quantity per  
designer.

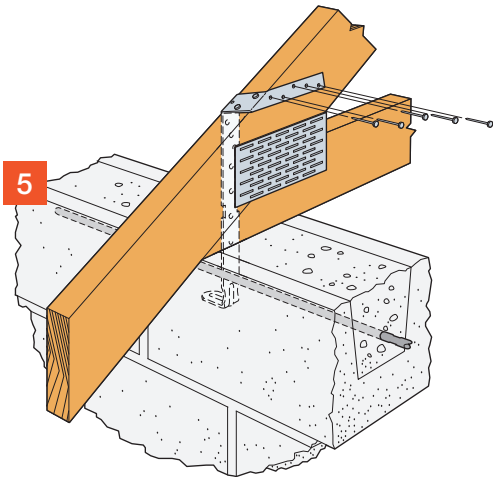
Cantidad  
según  
indicaciones  
del diseñador.

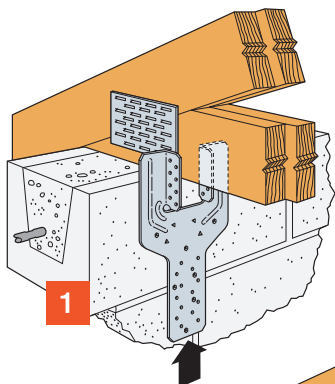




**Moisture barrier not shown (typ.)**


La barrera contra la humedad no se muestra (típ.)




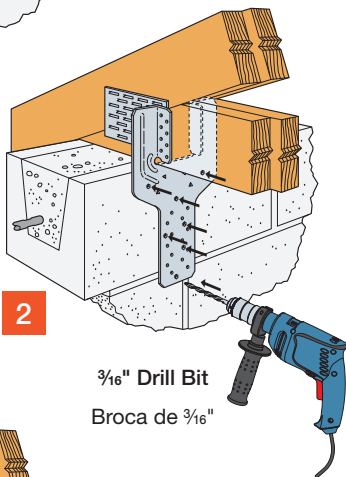


**LGT2 shown. LGT3 and LGT4 similar. For wood-to-wood connections using the LGT, visit [strongtie.com](http://strongtie.com).**

Se muestra LGT2. Similar a LGT3 y LGT4. Para conexiones de madera a madera usando el LGT, visite [strongtie.com](http://strongtie.com).

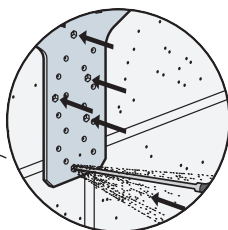
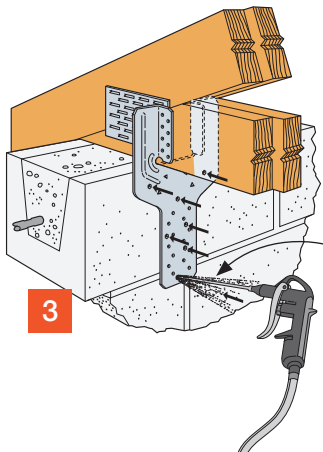
Fill  holes with Titen Turbo™ masonry screws.

Llene los orificios con tornillos para mampostería Titen Turbo. 



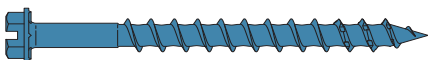
**3/16" Drill Bit**

**Broca de 3/16"**



**Compressed Air**

**Aire Comprimido**

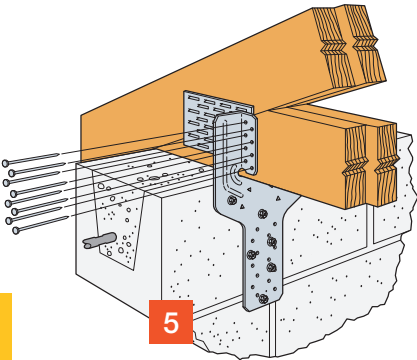
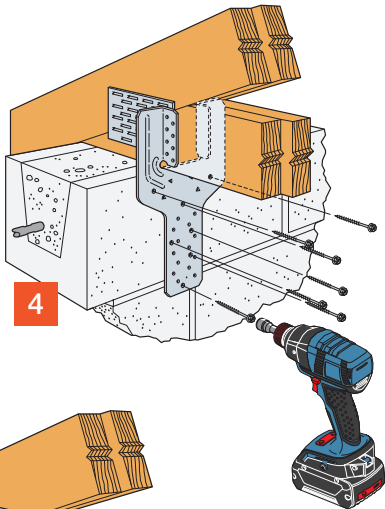


**Titen Turbo Masonry Screw (1/4" x 2 1/4")**

**For installation in concrete, use Titen® 2 1/4" x 1 3/4".**

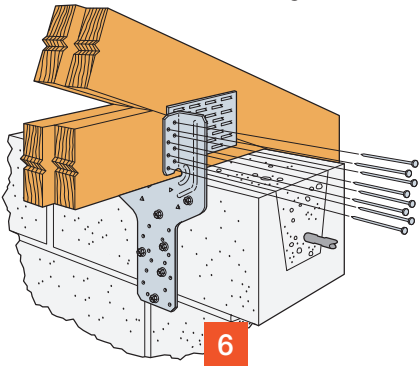
Tornillo para mampostería Titen Turbo (1/4" x 2 1/4")

Para instalaciones en concreto, utilice Titen 2 de 1/4" x 1 3/4".

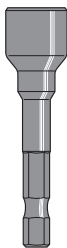
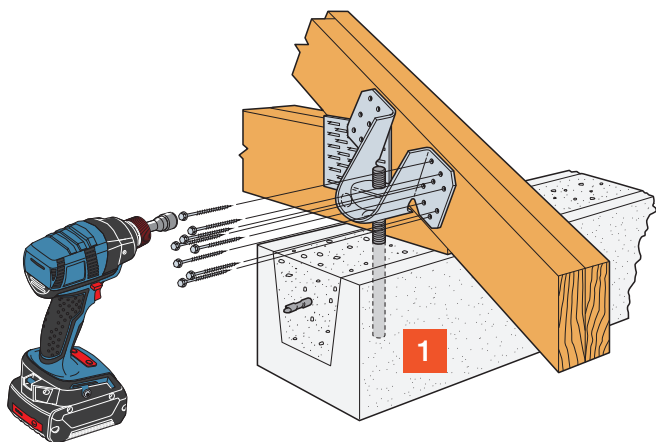


LGT2 shown. For  
installation of  
LGT3/LGT4, see  
[strongtie.com](http://strongtie.com).

Se muestra LGT2.  
Para la instalación  
de LGT3/ LGT4,  
consulte  
[strongtie.com](http://strongtie.com).



0.148" x 3 1/4"

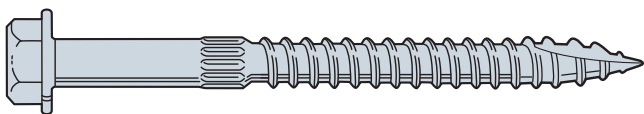


**Use  $\frac{3}{8}$ " driver.**

Use un destornillador  
de  $\frac{3}{8}$ ".

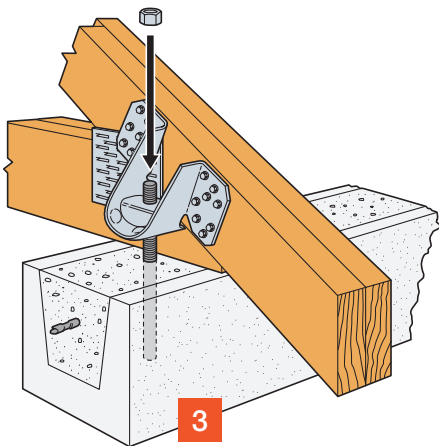
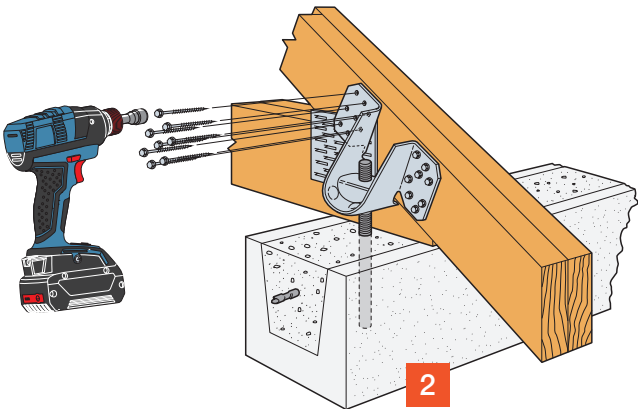
**If using an adhesive anchor, see  
pp. 109–110 for instructions.**

Si utiliza un anclaje adhesivo,  
consulte las instrucciones de las  
páginas 109–110.

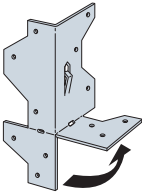


**$\frac{1}{4}$ " x 3" Strong-Drive® SDS HEAVY-DUTY CONNECTOR Screw**

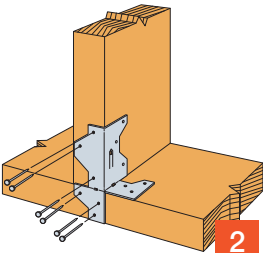
Tornillo para CONECTORES DE SERVICIO PESADO  
SDS Strong-Drive de  $\frac{1}{4}$ " x 3"



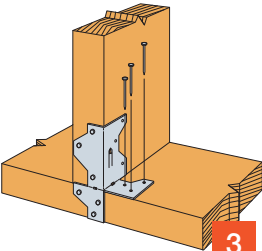
## A35



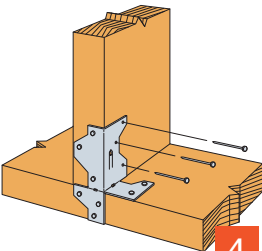
1



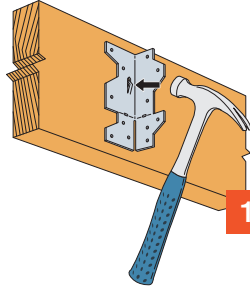
2



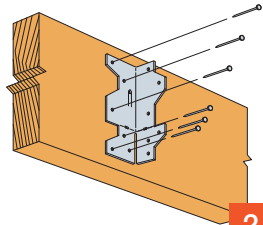
3



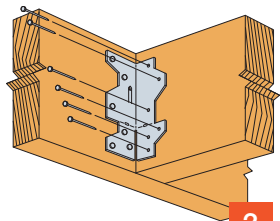
4



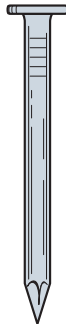
1



2

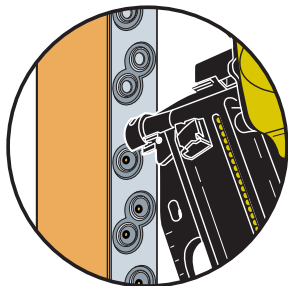
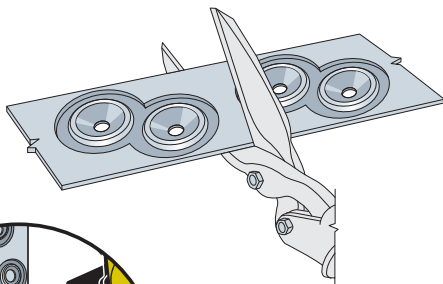


3



0.131" x 1 1/2"

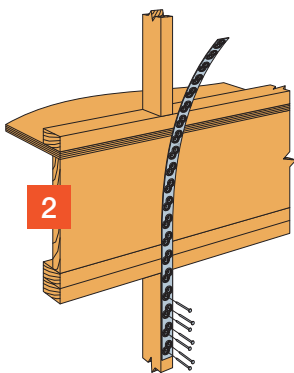
1



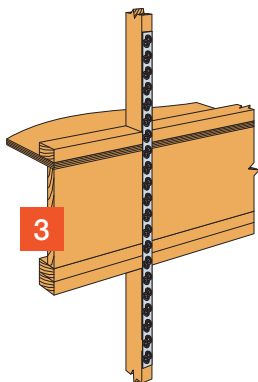
See [strongtie.com/cshp](http://strongtie.com/cshp) for framing nailer use.

Consulte [strongtie.com/cshp](http://strongtie.com/cshp) para el uso de clavadoras para entramados.

2

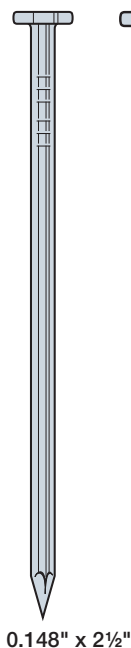


3

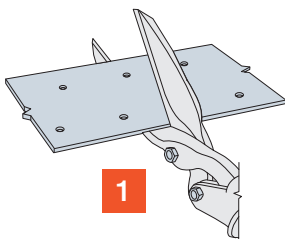


Model / Modelo	Lumber Species / Especies de Madera					
	Douglas Fir-Larch / Southern Pine			Spruce-Pine-Fir / Hem-Fir		
	End Length / Largo del Extremo	Cut Length / Largo a Cortar	Total Fasteners / Total de Clavos	End Length / Largo del Extremo	Cut Length / Largo a Cortar	Total Fasteners / Total de Clavos
CSHP18	10"	Clear Span (Tramo Claro) + 20"	(16) 0.131" x 2 1/2"	11"	Clear Span (Tramo Claro) + 22"	(18) 0.131" x 2 1/2"
	9"	Clear Span (Tramo Claro) + 18"	(14) 0.148" x 2 1/2"	10"	Clear Span (Tramo Claro) + 20"	(16) 0.148" x 2 1/2"
CSHP20	8"	Clear Span (Tramo Claro) + 16"	(12) 0.131" x 2 1/2"	9"	Clear Span (Tramo Claro) + 18"	(14) 0.131" x 2 1/2"
	8"	Clear Span (Tramo Claro) + 16"	(12) 0.148" x 2 1/2"	8"	Clear Span (Tramo Claro) + 16"	(12) 0.148" x 2 1/2"





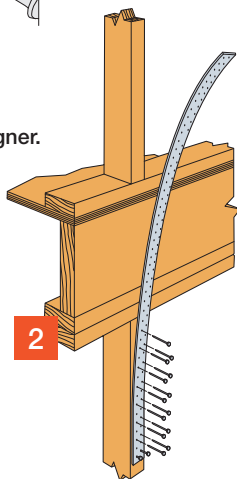
0.131" x 2½"



**CS14**  
**shown**  
Mostrado

## Quantity per designer.

Cantidad según  
indicaciones del  
diseñador.



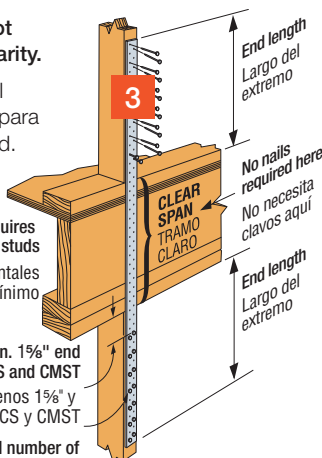
## Sheathing not shown for clarity.

No muestra el  
revestimiento para  
mayor claridad.

CMST requires  
minimum (2) 2x studs  
CMST requiere puntales  
de (2) 2x como mínimo

Provide min. 1⅝" end  
distance for CS and CMST  
Dejar al menos 1⅝" y  
distancia para CS y CMST

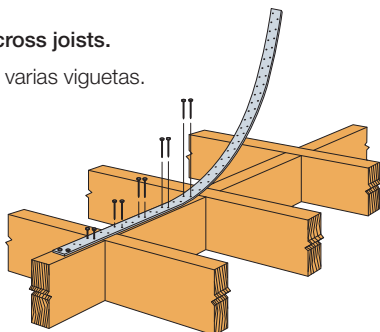
Equal number of  
specified nails in each end  
Igual cantidad de clavos  
especificados en cada extremo



0.162" x 2½"

## Across joists.

Sobre varias viguetas.



## Sheathing not shown for clarity.

No muestra el revestimiento para mayor claridad.

Model / Modelo	Lumber Species / Especies de Madera					
	Douglas Fir-Larch / Southern Pine			Spruce-Pine-Fir / Hem-Fir		
	End Length / Largo del Extremo	Cut Length / Largo a Cortar	Total Fasteners / Total de Clavos	End Length / Largo del Extremo	Cut Length / Largo a Cortar	Total Fasteners / Total de Clavos
CS14 CS14-R	16"	Clear Span (Tramo Claro) + 32"	(30) 0.131" x 2 1/2"	19"	Clear Span (Tramo Claro) + 38"	(36) 0.131" x 2 1/2"
	15"	Clear Span (Tramo Claro) + 30"	(26) 0.148" x 2 1/2"	16"	Clear Span (Tramo Claro) + 32"	(30) 0.148" x 2 1/2"
CS16 CS16-R	13"	Clear Span (Tramo Claro) + 26"	(22) 0.131" x 2 1/2"	15"	Clear Span (Tramo Claro) + 30"	(26) 0.131" x 2 1/2"
	11"	Clear Span (Tramo Claro) + 22"	(20) 0.148" x 2 1/2"	13"	Clear Span (Tramo Claro) + 26"	(22) 0.148" x 2 1/2"
CS20 CS20-R	9"	Clear Span (Tramo Claro) + 18"	(14) 0.131" x 2 1/2"	9"	Clear Span (Tramo Claro) + 18"	(16) 0.131" x 2 1/2"
	7"	Clear Span (Tramo Claro) + 14"	(12) 0.148" x 2 1/2"	9"	Clear Span (Tramo Claro) + 18"	(14) 0.148" x 2 1/2"
CMST12	39"	Clear Span (Tramo Claro) + 79"	(86) 0.148" x 2 1/2"	44"	Clear Span (Tramo Claro) + 89"	(98) 0.148" x 2 1/2"
	33"	Clear Span (Tramo Claro) + 68"	(74) 0.162" x 2 1/2"	38"	Clear Span (Tramo Claro) + 77"	(84) 0.162" x 2 1/2"
CMST14	30"	Clear Span (Tramo Claro) + 61"	(66) 0.148" x 2 1/2"	34"	Clear Span (Tramo Claro) + 70"	(76) 0.148" x 2 1/2"
	26"	Clear Span (Tramo Claro) + 52"	(56) 0.162" x 2 1/2"	30"	Clear Span (Tramo Claro) + 61"	(66) 0.162" x 2 1/2"
CMSTC16	20"	Clear Span (Tramo Claro) + 41"	(50) 0.148" x 3 1/4"	25"	Clear Span (Tramo Claro) + 50"	(58) 0.148" x 3 1/4"

**Note: Install half of the total fasteners in each end of strap.**

Nota: Instale la mitad de la cantidad total de sujetadores en cada extremo del fleje.

# H1 – Rafter/Cabrio

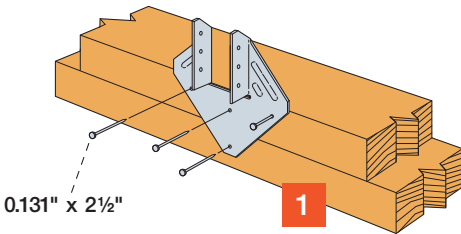
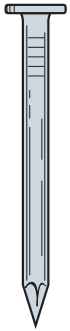
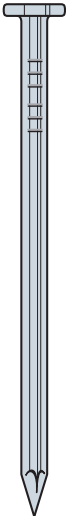
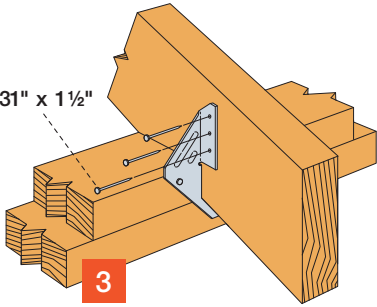
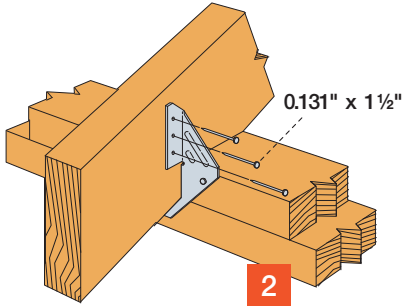


Plate  
Placas

Rafter  
Cabrio

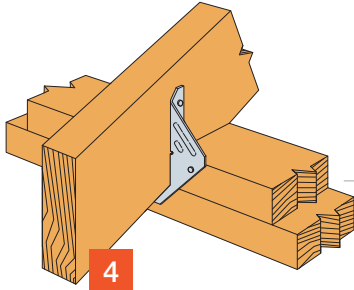


$0.131" \times 1\frac{1}{2}"$



$0.131" \times 2\frac{1}{2}"$

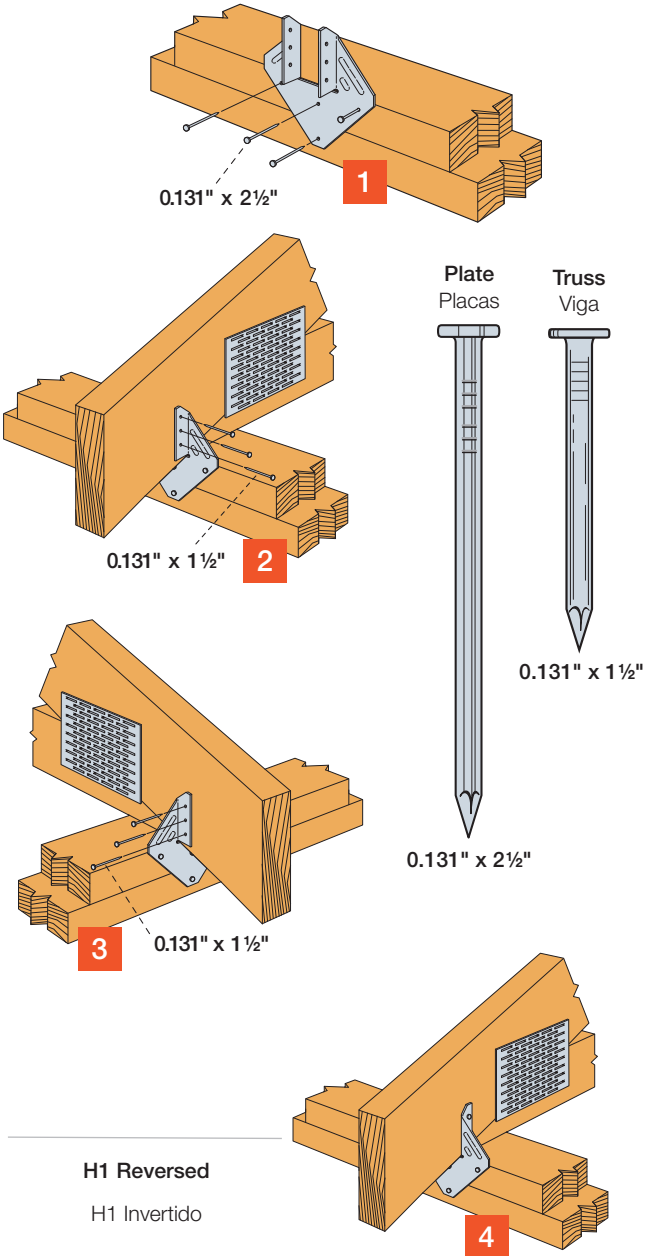
3

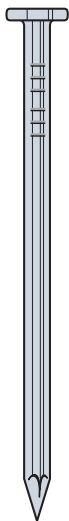


H1 Reversed

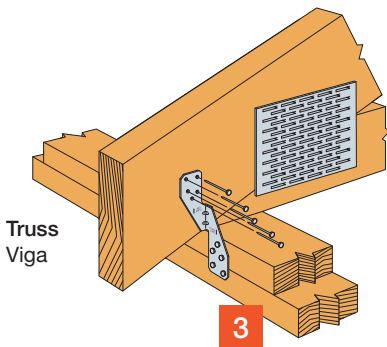
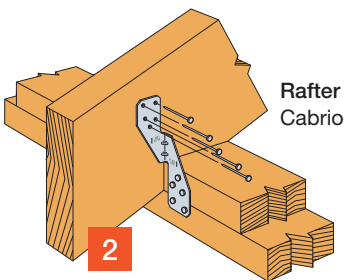
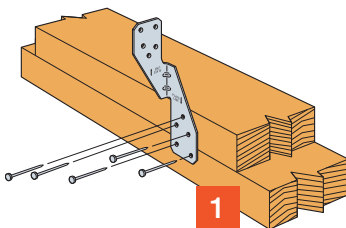
H1 Invertido

# H1 – Truss/Viga





0.131" x 2½"

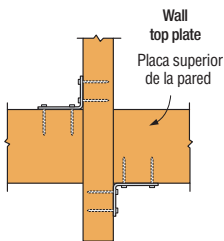


## Installations in Pairs

Both connectors shall be same model.

## Instalaciones en Pares

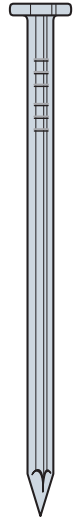
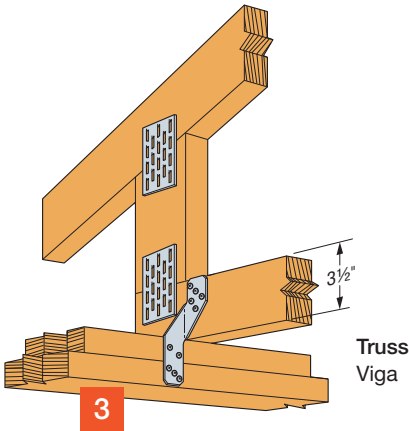
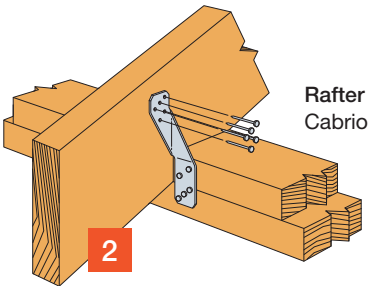
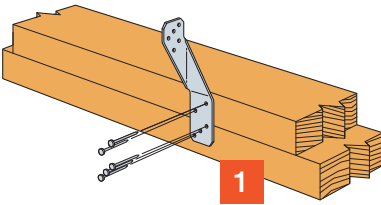
Ambos conectores deben ser del mismo modelo.



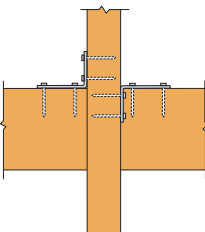
**Plan View**  
**Vista de Planta**

**Install diagonally across from each other for minimum 2x truss.**

Instale diagonalmente uno respecto del otro para dejar una cercha de 2x como mínimo.



0.131" x 2 1/2"

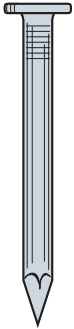


**Plan View**  
**Vista de Planta**

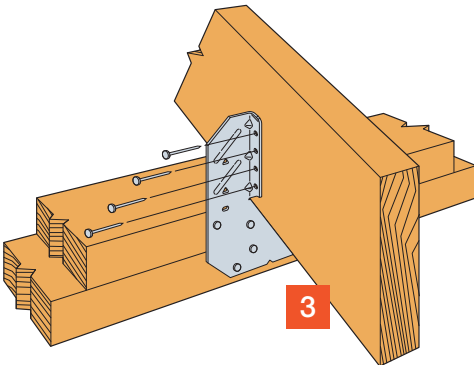
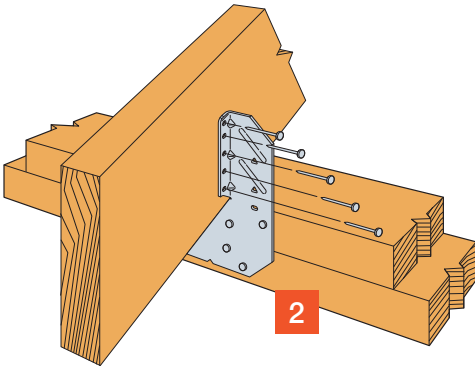
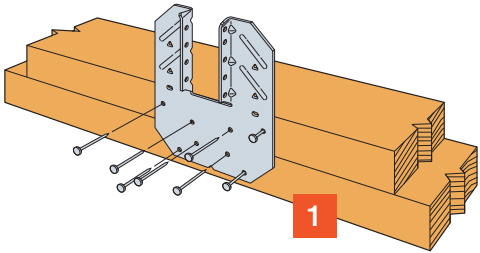
Products can be on the same side of the wall provided they are configured as shown.

Los productos se pueden instala a ambos lados de la pared siempre que se configuren como se muestra.

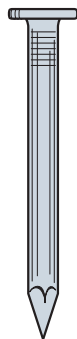
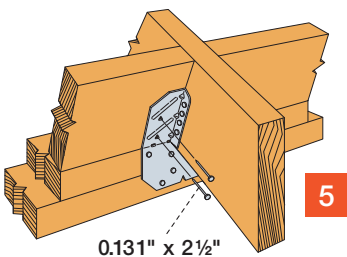
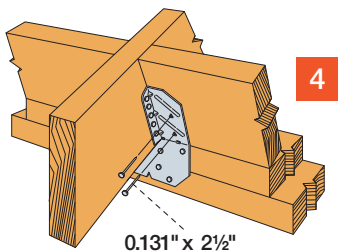
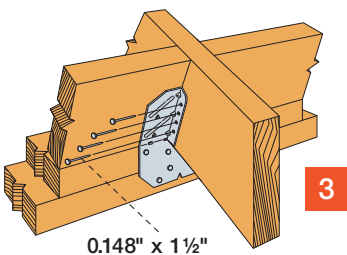
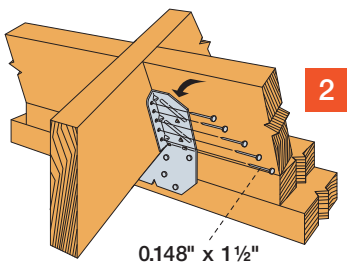
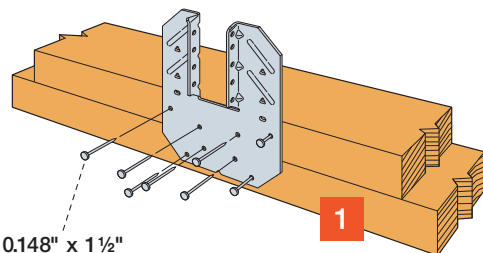
# H10A – Rafter/Cabrio



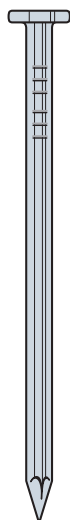
0.148" x 1½"



# H10A – Blocking/Entramado

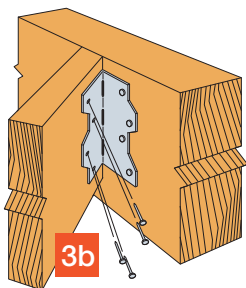
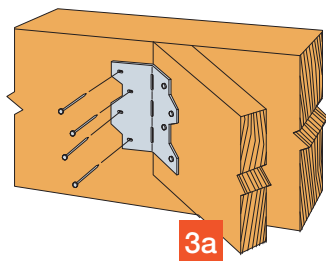
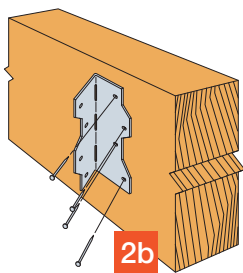
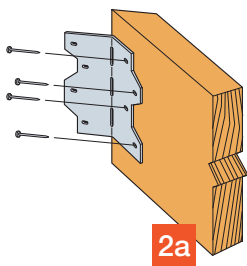
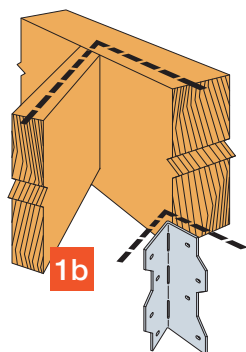
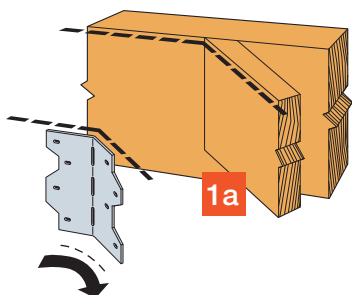


**0.148" x 1½"**

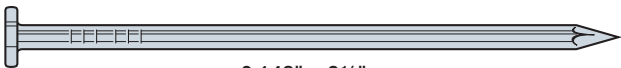
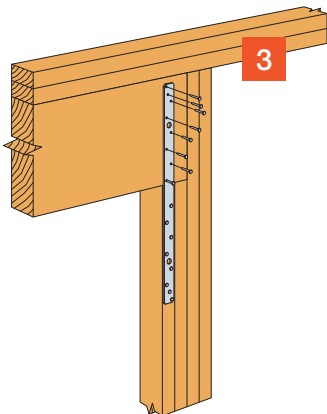
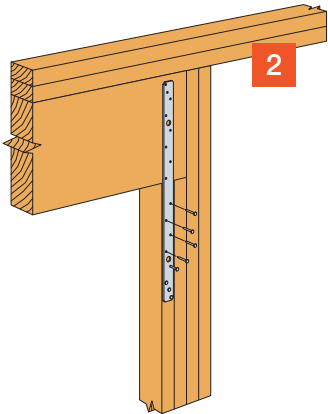
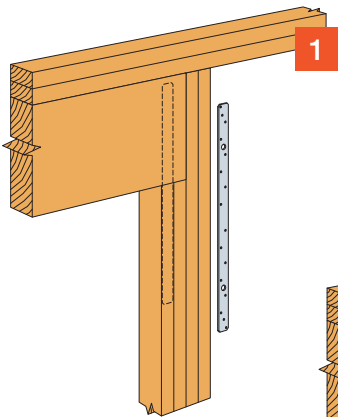


**0.131" x 2½"**

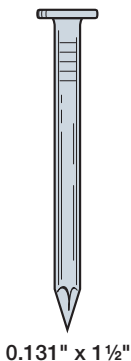
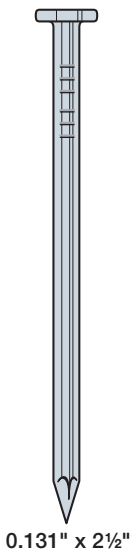
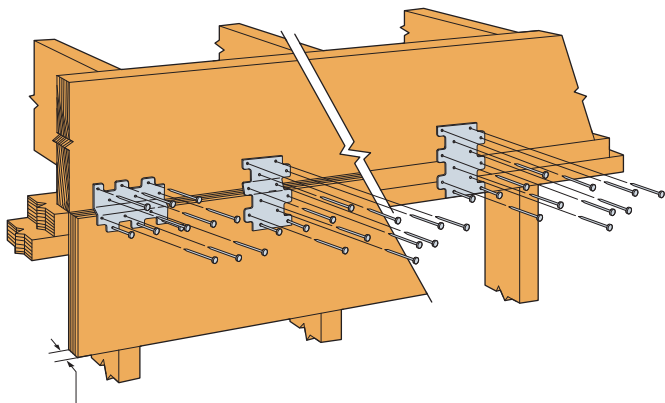




0.148" x 1 1/2"



0.148" x 2½"



## Fasteners:

### LTP4

No sheathing: 0.131" x 1½"

Over sheathing (½" thick max.): 0.131" x 2½"

### LTP5

No sheathing: 0.131" x 1½"

Over sheathing (½" thick max.): 0.131" x 2½"

## Sujetadores:

### LTP4

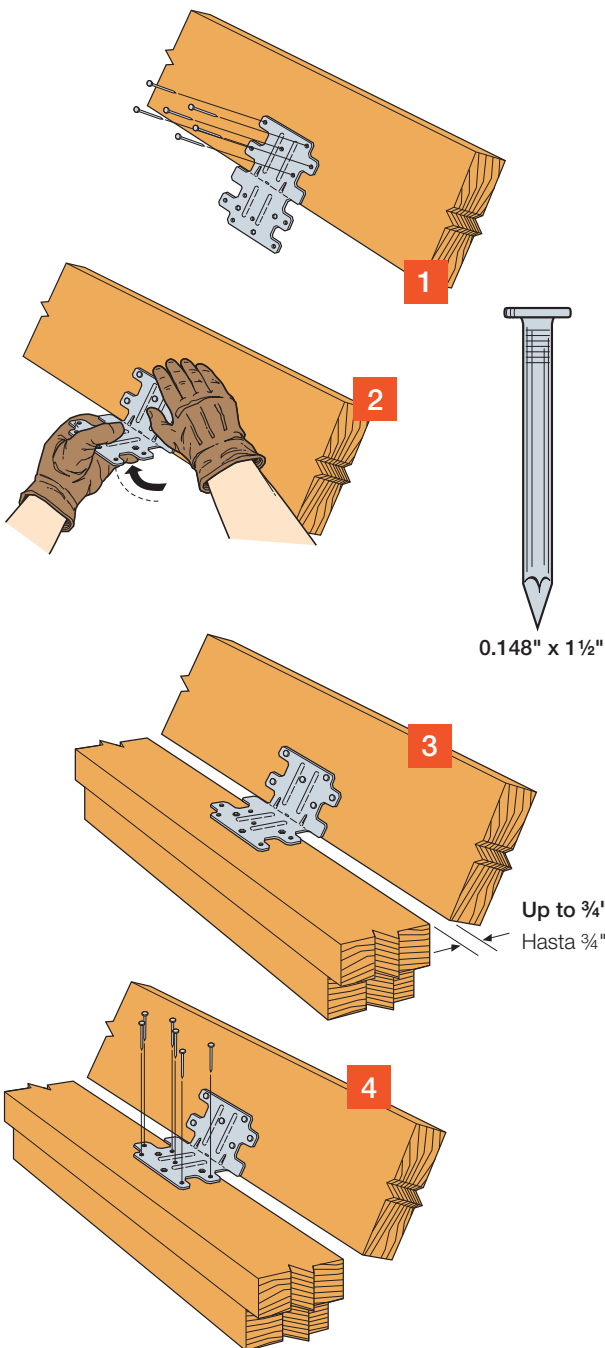
Sin relleno: 0.131" x 1½"

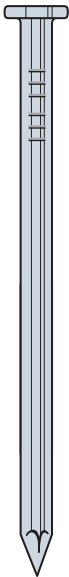
Sobre relleno (½" de espesor máx.): 0.131" x 2½"

### LTP5

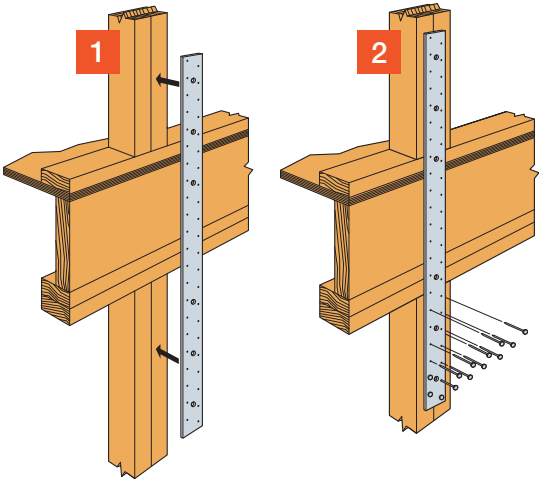
Sin relleno: 0.131" x 1½"

Sobre relleno (½" de espesor máx.): 0.131" x 2½"

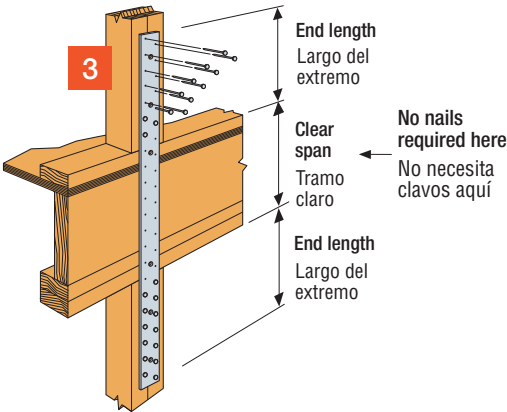


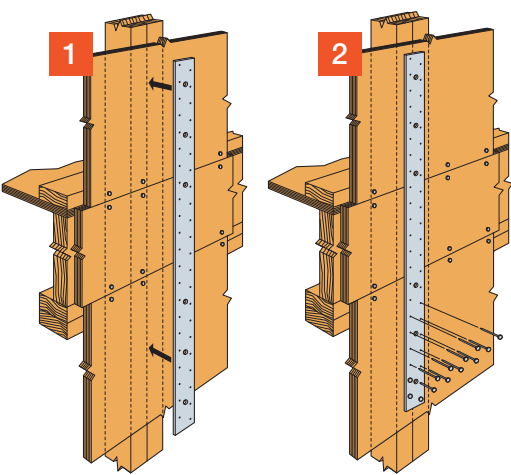


0.162" x 2½"

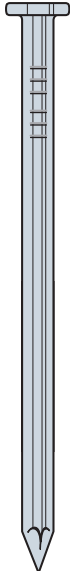


No Sheathing / Sin Relleno

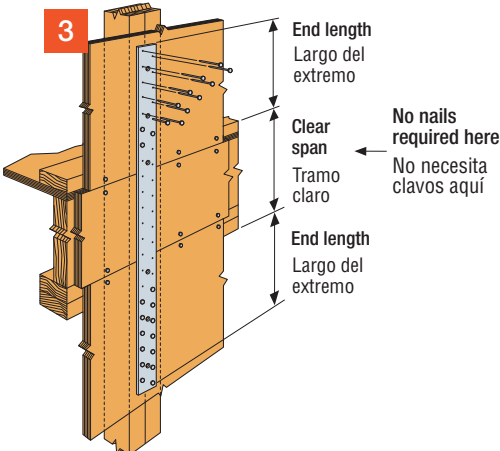


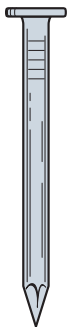


With Sheathing / Con Relleno

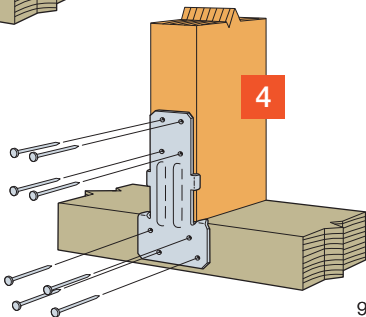
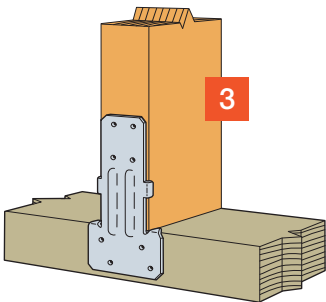
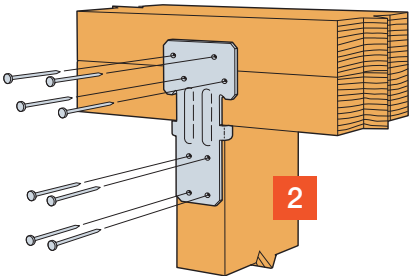
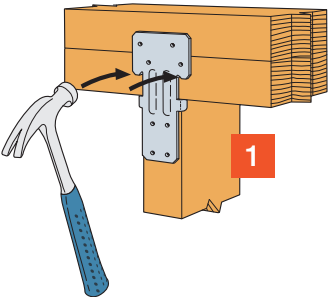


0.162" x 2½"

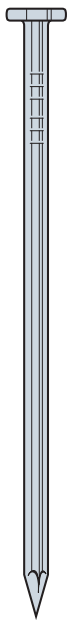
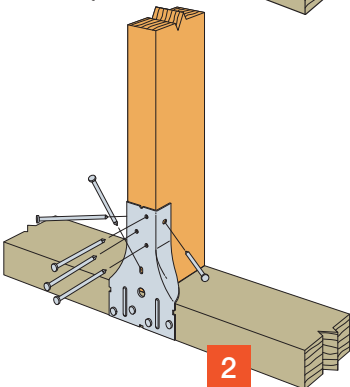
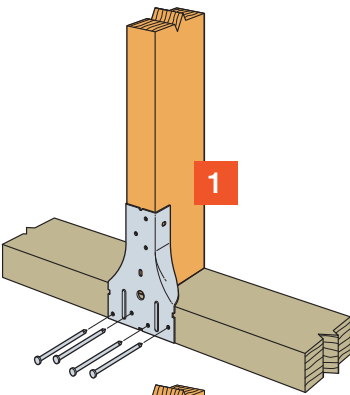




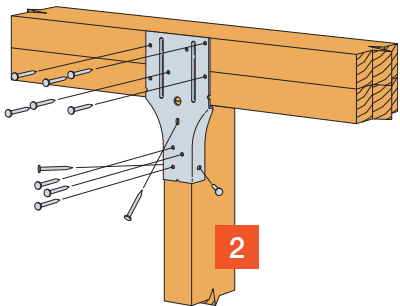
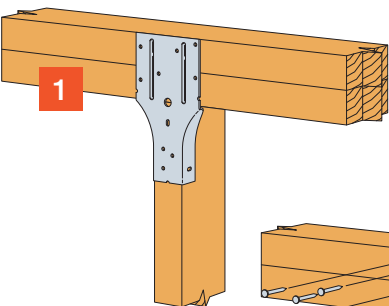
0.131" x 1½"



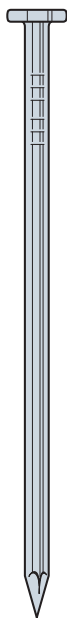
# SP1/SP2



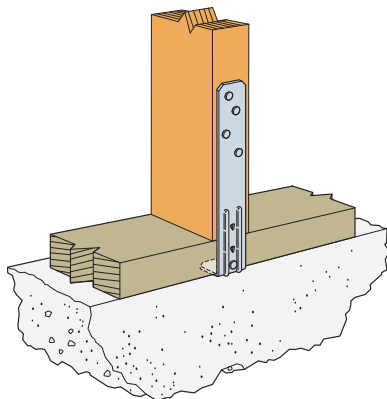
0.148" x 3"





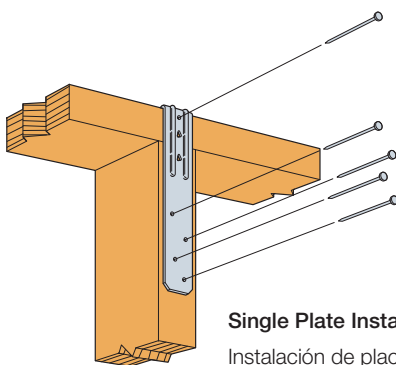


0.148" x 3"



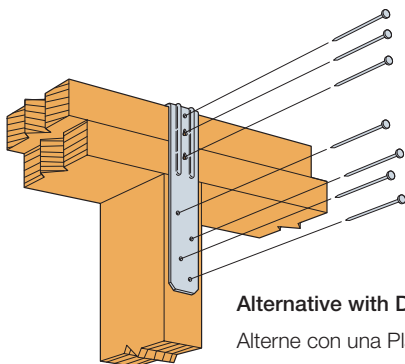
## Installation on Mudsill

Instalación sobre Durmientes



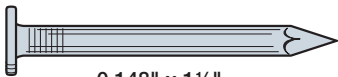
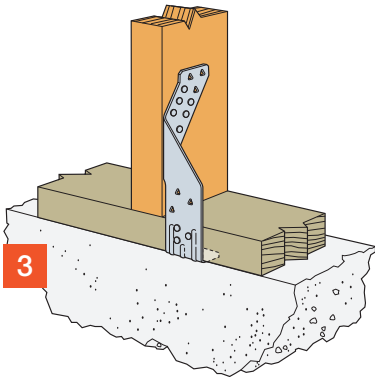
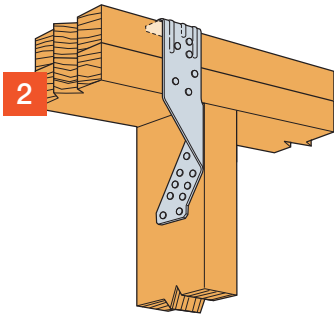
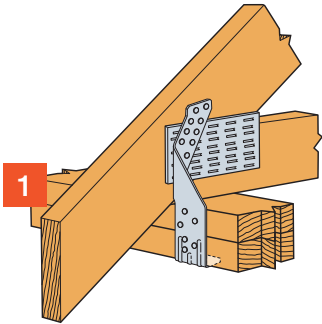
## Single Plate Installation

Instalación de placa sencilla

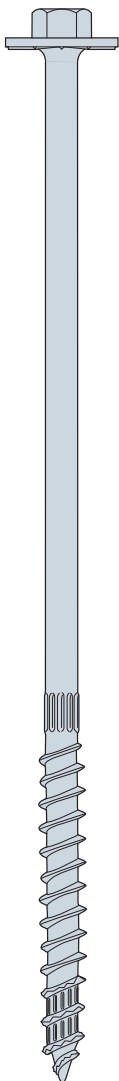


## Alternative with Double Top Plate

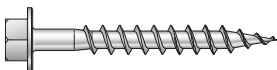
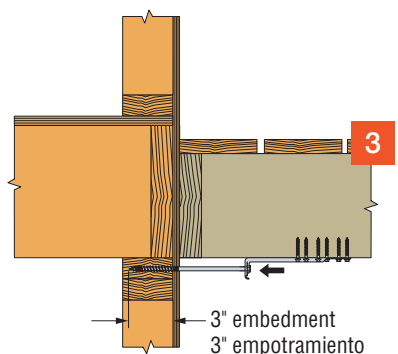
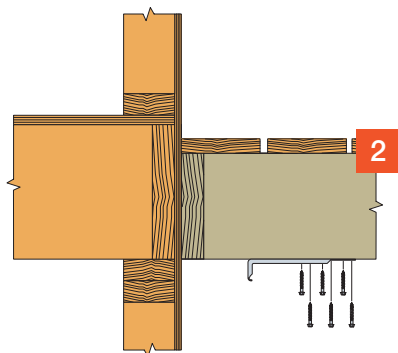
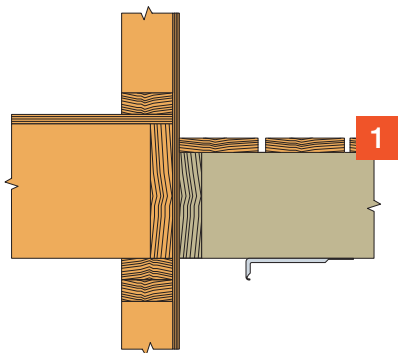
Alternar con una Placa Superior Doble



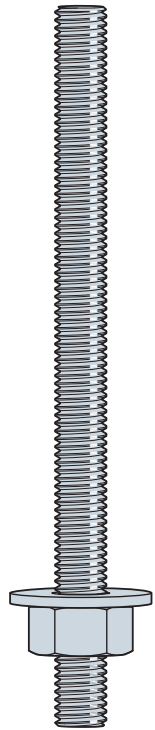
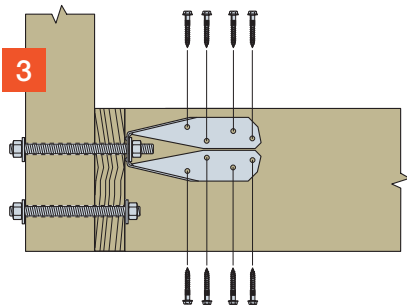
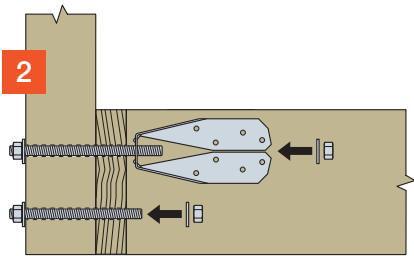
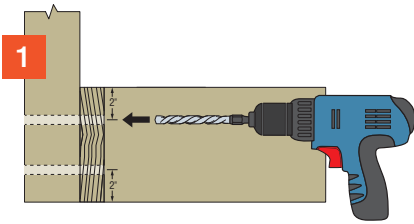
## DTT1Z



**Strong-Drive®**  
**SDWH TIMBER-HEX**  
**HDG Screw**  
Tornillo HDG HEXAGONAL  
PARA MADERA SDWH  
Strong-Drive

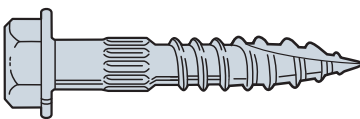


**#9 x 1 1/2" Strong-Drive® SD**  
**CONNECTOR Screw**  
Tornillo para CONECTORES SD  
Strong-Drive de #9 x 1 1/2"



**HDG Bolt or  
Threaded Rod**

Perno HDG o  
varilla roscada

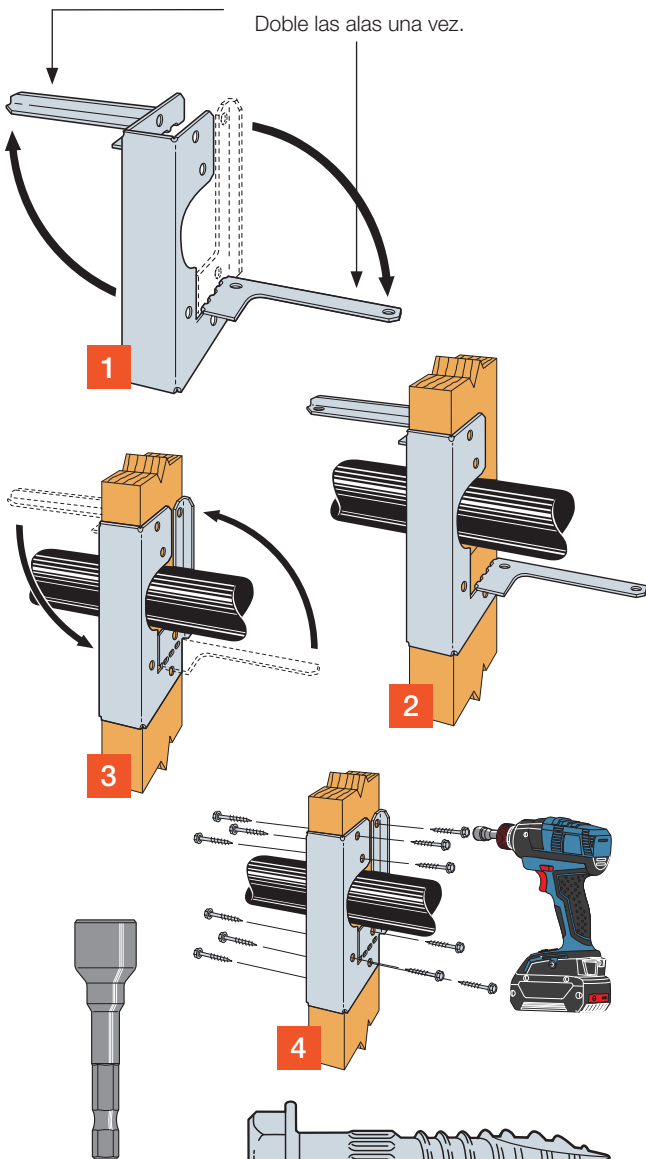


**1/4" x 1 1/2" Strong-Drive®  
SDS HEAVY-DUTY CONNECTOR Screw**  
Tornillo para CONECTORES DE SERVICIO  
PESADO SDS Strong-Drive de 1/4" x 1 1/2"

## HSS

Bend flanges one time only.

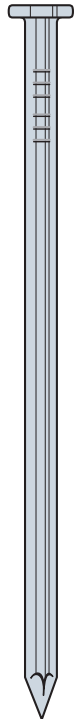
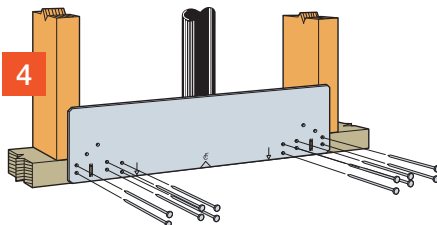
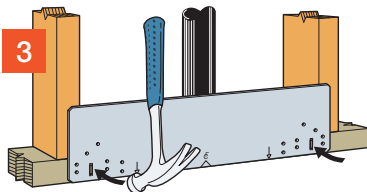
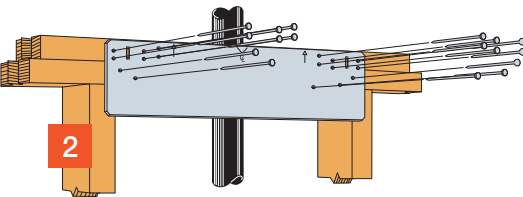
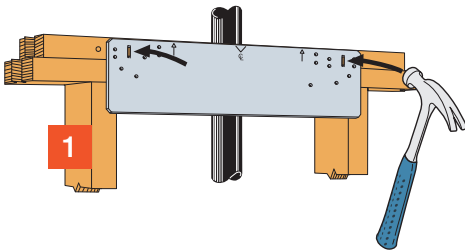
Doble las alas una vez.



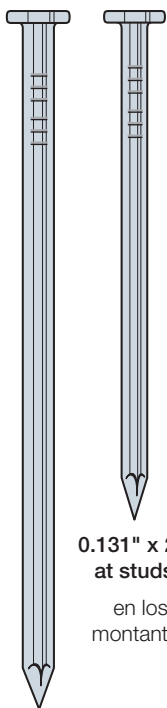
Use 3/8" driver.

Use un  
destornillador  
de 3/8".

1/4" x 1 1/2" Strong-Drive®  
**SDS HEAVY-DUTY CONNECTOR Screw**  
Tornillo para CONECTORES DE SERVICIO  
PESADO SDS Strong-Drive de 1/4" x 1 1/2"



0.162" x 3 1/2"

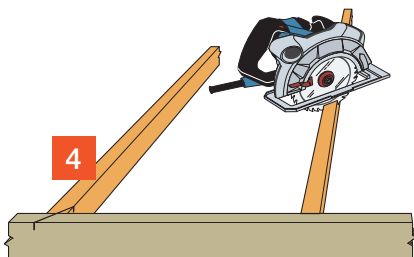
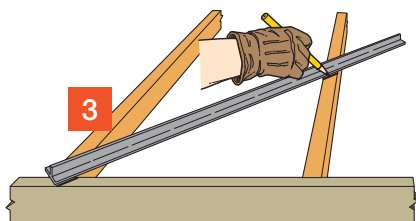
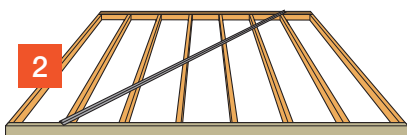
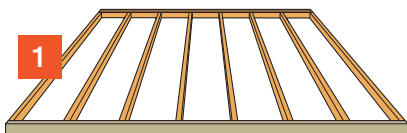


0.131" x 2½"  
at studs /

en los  
montantes

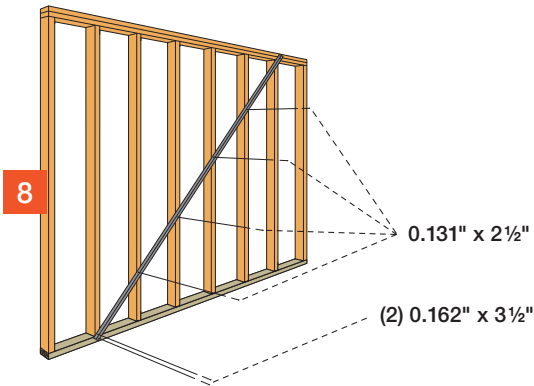
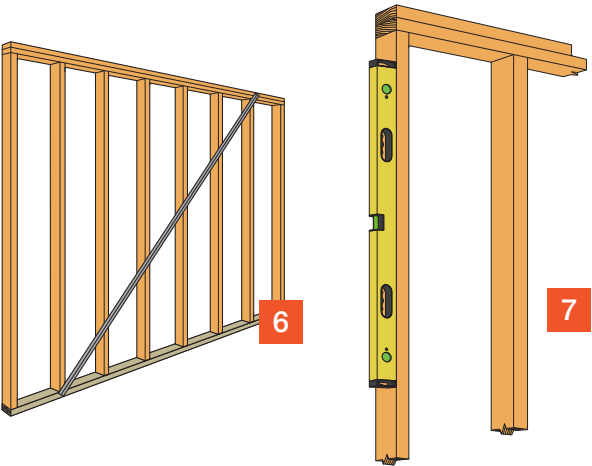
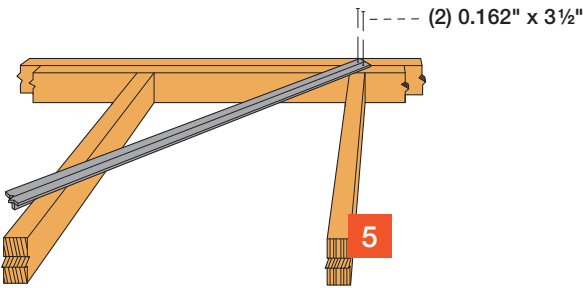
0.162" x 3½"  
at plates /

en las soleras



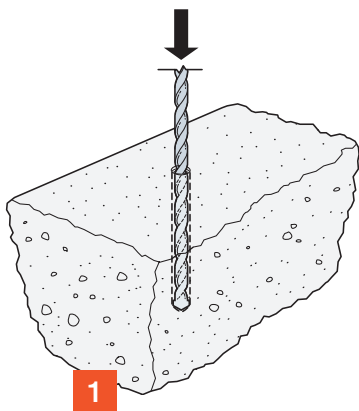
Cut ⅝" kerf

Corte un corte  
de ⅝"



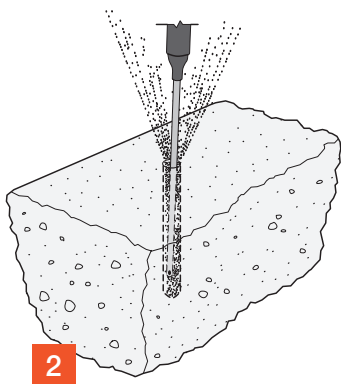


## Adhesive Anchoring / Anclaje Adhesivo (AT-XP®, SET-3G® and SET-XP®)



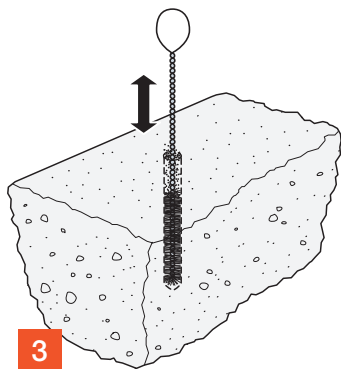
**Compressed air (80 psi min.),**  
**4 seconds (min.) — AT-XP,**  
**SET-XP**  
**2 seconds (min.) — SET-3G**

**Aire comprimido (80 psi mín.),**  
**4 segundos (mín.) — AT-XP,**  
**SET-XP**  
**2 segundos (mín.) — SET-3G**



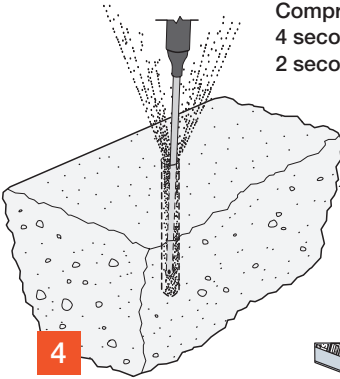
**Nylon brush**  
**4 cycles (min.) — AT-XP,**  
**SET-XP**  
**Wire brush**  
**2 seconds (min.) — SET-3G**

**Cepillo de nylon**  
**4 ciclos (mín.) — AT-XP,**  
**SET-XP**  
**Cepillo de alambre**  
**2 segundos (mín.) — SET-3G**



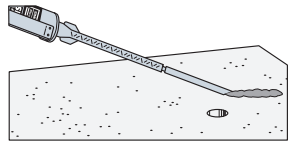
# Adhesive Anchoring

Anclaje Adhesivo



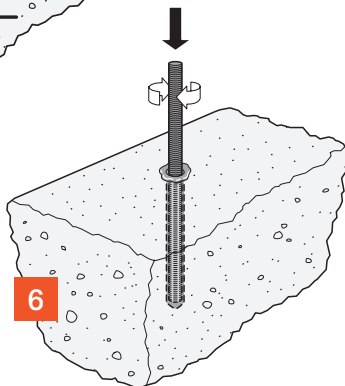
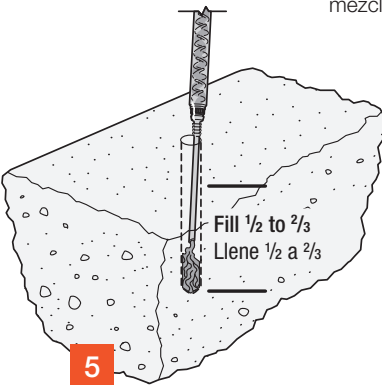
Compressed air (80 psi min.),  
4 seconds (min.) — AT-XP®, SET-XP®  
2 seconds (min.) — SET-3G®

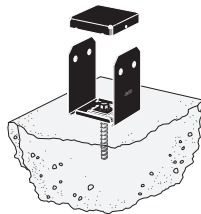
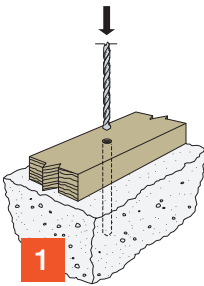
Aire comprimido (80 psi mín.),  
4 segundos (mín.) — AT-XP,  
SET-XP  
2 segundos (mín.) — SET-3G



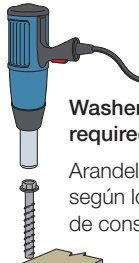
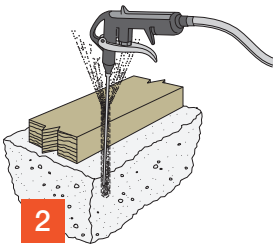
Dispense until mixed properly  
(uniform color).

Suministre hasta que esté bien  
mezclado (color uniforme).

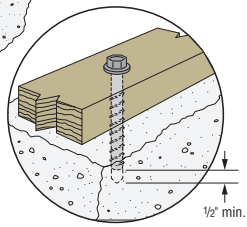
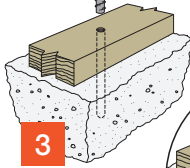




Similar  
Similar

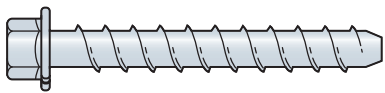


Washer or bearing plate as required by building code.  
Arandela o disco de presión según lo requiera el código de construcción.



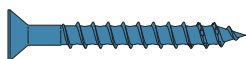
Titen HD Diameter (in.) Diámetro de Titen HD (pulg.)	Hex Wrench Size (in.) Tamaño de llave hexagonal (pulg.)
1/4	3/8
3/8	9/16
1/2	3/4
5/8	15/16
3/4	1 1/8

Hole size equals anchor diameter.  
El tamaño del orificio es igual al diámetro del anclaje



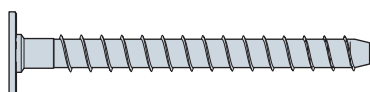
**Titen HD Heavy-Duty Screw Anchor**

Anclaje de tornillo de servicio pesado Titen HD



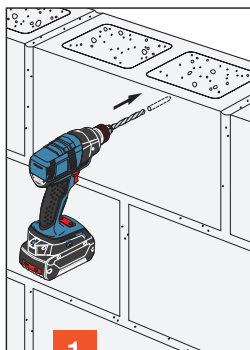
**Titen HD Countersunk Screw Anchor**

Anclaje de tornillo avellanado Titen HD

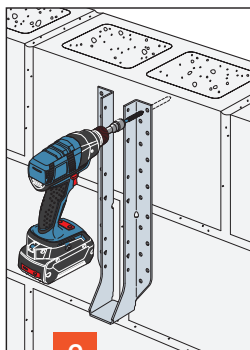


**Titen HD Heavy-Duty Screw Anchor with Washer-Head**

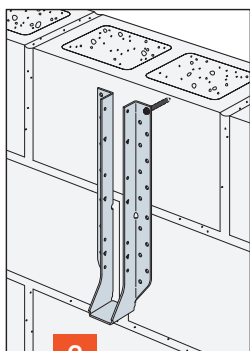
Anclaje de tornillo de servicio pesado con cabeza tipo arandela 111



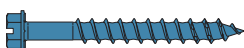
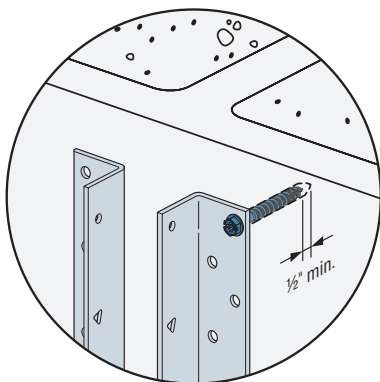
1



2



3



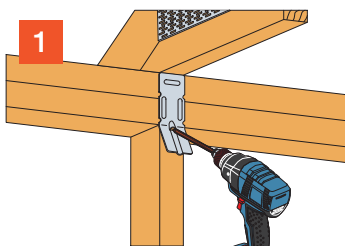
**Titen Turbo Concrete and  
Masonry Screw Anchor**

Anclaje de tornillo para concreto y  
mampostería Titen Turbo

## Strong-Drive® SDWC TRUSS Screw

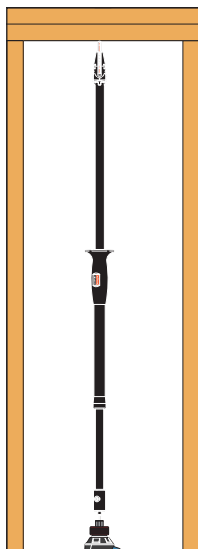
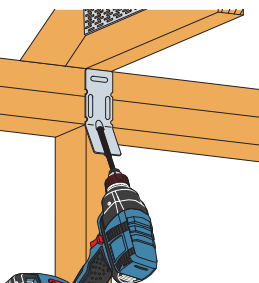
Note: SDWC Truss screws can also be installed using the Quik Stik™ Rafter and Truss Fastening System.

Nota: Los tornillos para cerchas SDWC también se pueden instalar con el sistema de sujeción de vigas y cerchas Quik Stik™.



1

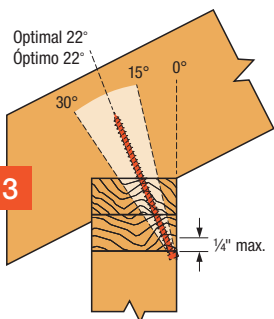
2



Optimal 22°  
Óptimo 22°

30° 15° 0°

3

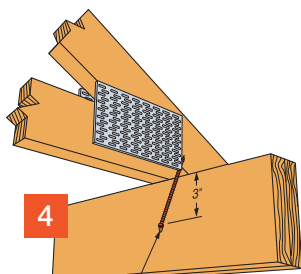


1/4" max.

**Installation  
angle limit**

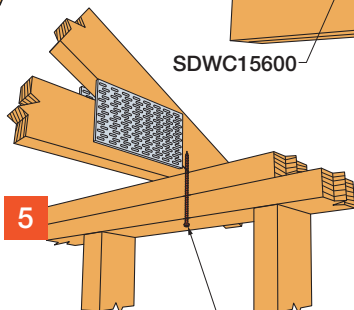
Límite de  
ángulo para  
instalación

4



SDWC15600

5



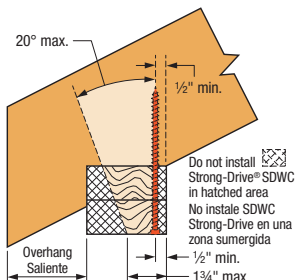
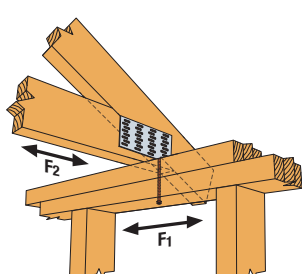
SDWC15600

# SDWC for Rafter/Truss with Quik Stik™



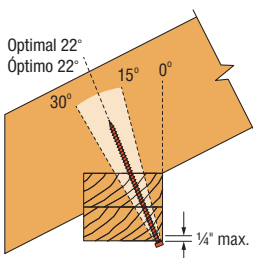
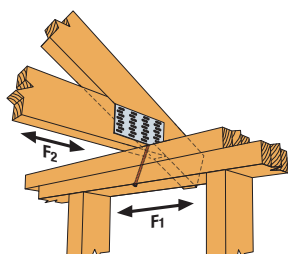
## Fasten Straight Up Through Double Top Plate

Sujete directamente a través de la solera superior doble



## Fasten from Front-Bottom Corner of Double Top Plate

Sujete desde la esquina inferior delantera de la solera superior doble



### Optional SDWC Installation — Truss Offset from Stud

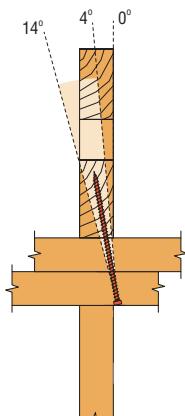
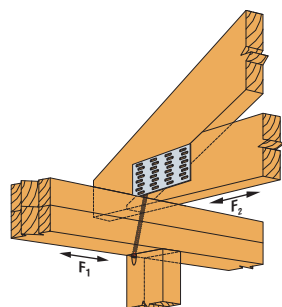
Instalación opcional del SDWC — Cercha desplazada con respecto al montante

### Installation Angle Limit

Límite del ángulo para la instalación

## Fasten from Wide Face of Stud

Sujete desde la cara ancha del montante



### Optional SDWC Installation — Wide-Face Installation Aligned with Stud

Instalación opcional de SDWC — Instalación de cara ancha alineada con montante

### Allowable Installation Range (rafter/truss offset from stud only)

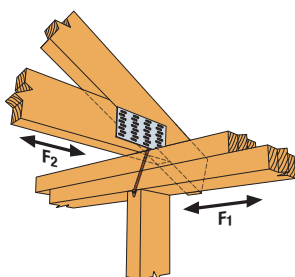
Rango de instalación permitido (solo desplazamiento de viga/cercha desde montante)

# SDWC for Rafter/Truss with Quik Stik™

**SIMPSON**  
**Strong-Tie**

## Fasten from Narrow Face of Stud

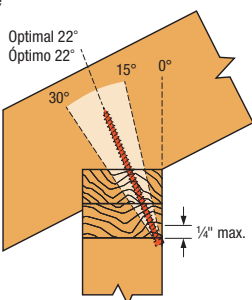
Sujete desde la cara estrecha del montante



### Optional SDWC Truss Screw Installation — Truss Aligned with Stud

(rafter aligned with stud similar)

Instalación de tornillos para cercha SDWC opcional – Cercha alineada con montante  
(viga alineada con el montante similar)

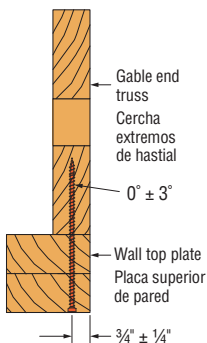


### Installation Angle Limit

Límite del ángulo para la instalación

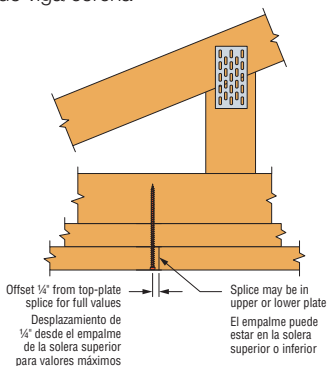
## Rafter/Truss Gable End Installation

Instalación en extremo de hastial de viga/cercha



### Installation Edge Distance

Distancia al borde de instalación

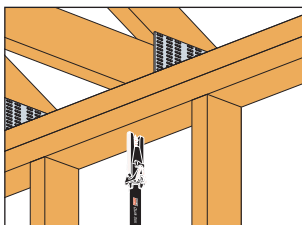
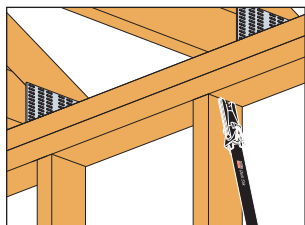


### Top Plate Splice Spacing

Espaciado de empalme de la solera superior

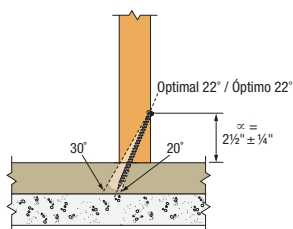
## Installation with Quik Stik™

Instalación con Quik Stik



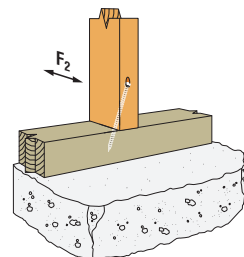
# Strong-Drive® SDWC TRUSS Screw

**SIMPSON**  
**Strong-Tie**



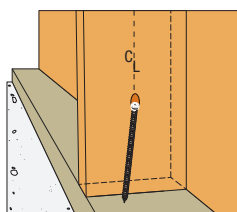
## Stud-to-Bottom Plate Connection Over Concrete/Masonry Foundation

Conexión de montante a solera inferior sobre  
cimentación de concreto/mampostería



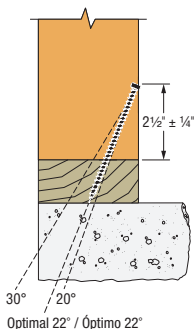
## Narrow Face of Stud-to-Bottom Plate

Cara estrecha de montante  
sobre solera inferior



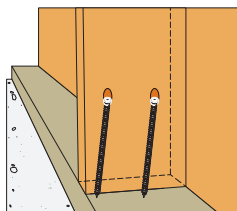
## One Screw

Un tornillo



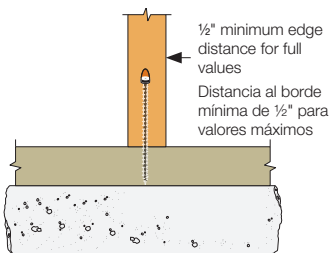
## Installation Angle Range

Rango de ángulo de instalación



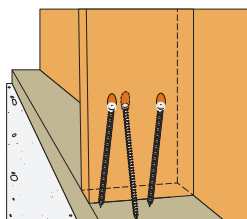
## Two Screws

Dos tornillos



## Min. Edge Distance

Distancia mín. al borde



## Three Screws

Tres Tornillos



# Strong-Drive® SDPW DEFLECTOR Screw

**SIMPSON**  
**Strong-Tie**

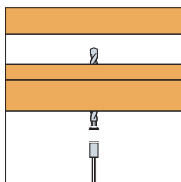
## Non-load-bearing partition wall applications

Aplicaciones de paredes separadoras que no soportan carga



**1**

**Attach extension**  
Inserte la extensión



**2**

**Predrill into top plate only**

Perfore la solera superior solamente

**3**

**Select the SDPW Deflector Screw length for the thickness of the top plate assembly**

Seleccione el largo de tornillo deflector SDPW apropiado para el espesor del ensamble de solera superior



3 1/2"



5"

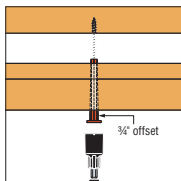
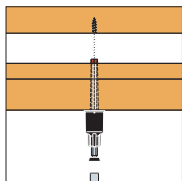


6"



**Offset Driver Bit**

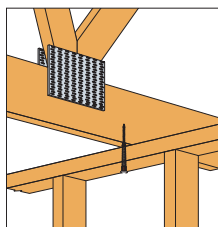
Punta para destornillador curvo



**4**

**Drive SDPW Deflector Screw through predrilled top plate and into ceiling joist**

Inserte el tornillo deflector SDPW a través de la solera superior perforada y en la vigueta de techo



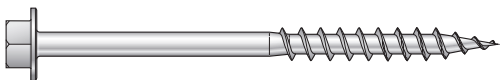
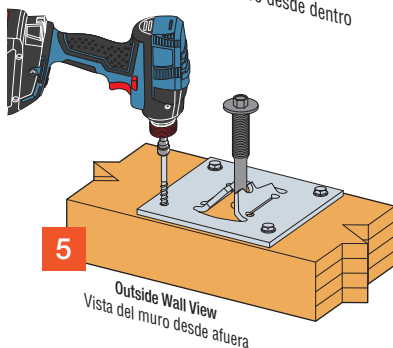
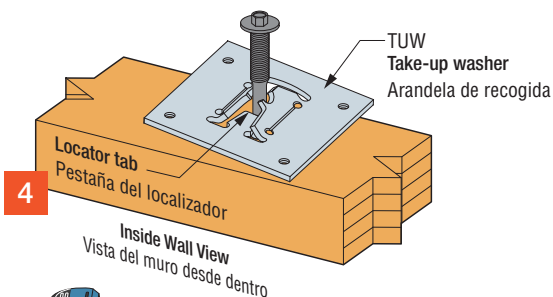
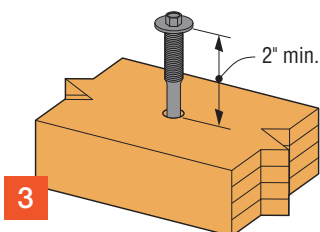
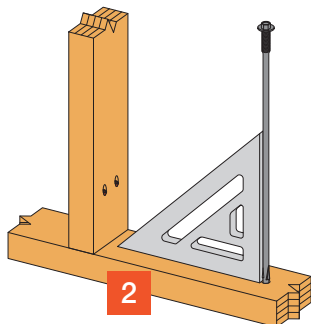
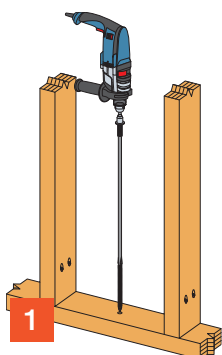
**5**

**Typical SDPW Deflector Screw installation**

Instalación típica del tornillo deflector SDPW

# Strong-Drive® SDWF FLOOR-TO-FLOOR Screw

**SIMPSON**  
**Strong-Tie**

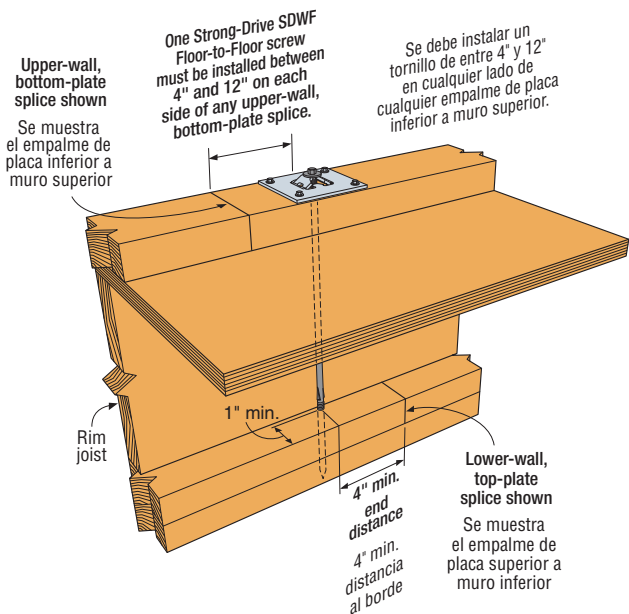
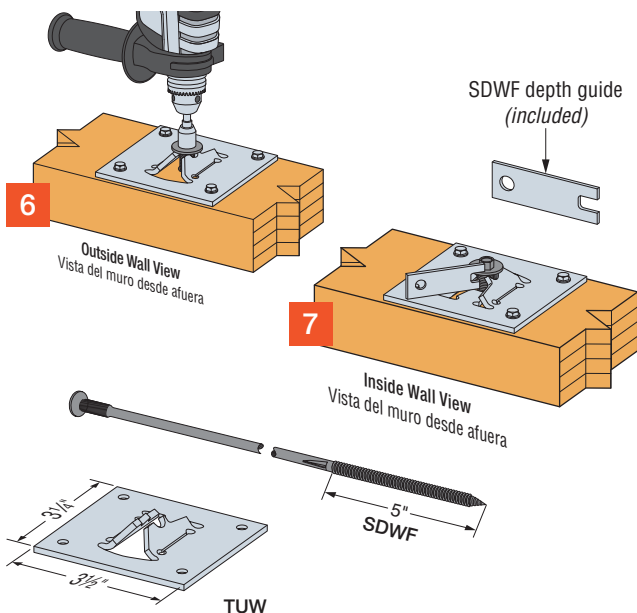


**#9 x 2½" Strong-Drive® SD CONNECTOR Screw**

Tornillo para CONECTORES SD Strong-Drive de #9 x 2½"

# Strong-Drive® SDWF FLOOR-TO-FLOOR Screw

**SIMPSON**  
**Strong-Tie**



## Typical Strong-Drive SDWF FLOOR-TO-FLOOR and Tuw Installation

Instalación típica de tornillo para piso a piso SDWF  
Strong-Drive y Tuw

# We now have a web version of this installer's guide.

## Ahora tenemos una versión web de esta guía para el instalador.



Check it out at  
**[strongtie.com/installersguide](https://strongtie.com/installersguide)**  
Consúltela en [strongtie.com/installersguide](https://strongtie.com/installersguide)

S-C-INSTALL22 7/22 exp. 12/24

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